



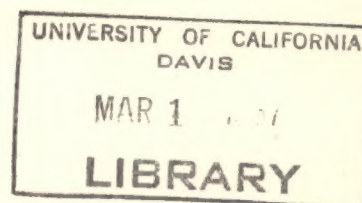
Division of Agricultural Sciences  
UNIVERSITY OF CALIFORNIA

# INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and  
Earnings Under 1955 Cotton Acreage Allotments)

I. Upper San Joaquin Valley Cotton Farms, 1953-55

Trimble R. Hedges



**CALIFORNIA AGRICULTURAL EXPERIMENT STATION  
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS**

In Cooperation with PRODUCTION ECONOMICS RESEARCH BRANCH  
AGRICULTURAL RESEARCH SERVICE, U. S. D. A.

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This investigation of the impact of the cotton acreage allotment program on farm organization, production, and earnings in the Upper San Joaquin Valley resulted from a cooperative study of the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Production Economics Research Branch, Agricultural Research Service, United States Department of Agriculture.

H. Russell Shaw, Assistant Professor of Agricultural Economics, Assistant Agricultural Economist in the Experiment Station, and on the Giannini Foundation assisted in collecting field data, as did Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation. The latter also assisted in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head Western Field Research Section, and M. L. Upchurch, Head Western Field Research Section, all of the Production Economics Research Branch, participated in outlining and developing the project outline and plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

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Trumble R. Hedger



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# INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings  
Under 1955 Cotton Acreage Allotments)

1. Upper San Joaquin Valley Cotton Farm; 1953-1955 <sup>a/</sup>

Trimble R. Hedges <sup>b/</sup>

## FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Upper San Joaquin Valley. We obtained these data by interviewing farmers and agencies serving farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160- and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resources use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes.

The data for the 80-acre farms will serve to indicate the kind and amount of information that this report includes for each of the three sizes of farms. First appears two tables containing facts about the land resources and the cropping systems that operators on three 80-acre models followed before and after the 1954 and 1955 cotton allotments (Tables 1, 2). Calendars of operations for the various crops occupy the following six tables (Tables 3 through 9). We then present information for the first 80-acre model, the 80-1 unit, including two tables to show use of power and equipment and irrigation water and five to list inputs and costs for a range of crops (Tables 12 through 16). This latter pattern repeats itself for the other two 80-acre models, the 80-2, and 80-3 units (Tables 17 through 21, and 22 through 26). This same listing for the 80-acre farms applies also to the other two sizes, the 160- and 320-acre models. In addition, the last few tables contain price and cost information for the various farm products, and the principal services and materials that farmers buy to use in producing their crops.

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<sup>a/</sup> This statistical supplement is a companion report to Hedges, Trimble R., Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 1. The Upper San Joaquin Valley, Giannini Mimeographed Report No. 191, the first of a series based on detailed investigations of the changes in farm organization, production and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3, Production Economics Research Branch, U.S.D.A.

<sup>b/</sup> Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis.







Table 1. Crops and Land Use on Typical 80 Acre Farms, 1953-1955; 80-1, Cotton-Alfalfa; 80-2, Cotton-Potato; 80-3, Cotton-Barley, in Upper San Joaquin Valley

Year	Cotton	Alfalfa	Potatoes	Barley	Field corn	Milo	Double crop	Total crop-land	Non cultivated	Total land
1	2	3	4	5	6	7	8	9	10	11
80-1										
1953	60	17	--	--	--	--	--	77	3	80
1954	40	25	--	12	--	--	--	77	3	80
1955	33	30	--	14	--	14	14	77	3	80
Changes										
1953 to 1954	-20	+ 8	--	+12	--	--	--	--	--	--
1954 to 1955	- 7	+ 5	--	+ 2	--	+14	+14	--	--	--
1953 to 1955	-27	+13	--	+14	--	+14	+14	--	--	--
80-2										
1953	60	--	17	--	--	--	--	77	3	80
1954	40	--	12	--	25	--	--	77	3	80
1955	33	--	15	--	29	--	--	77	3	80
Changes										
1953 to 1954	-20	--	- 5	--	+25	--	--	--	--	--
1954 to 1955	- 7	--	+ 3	--	+ 4	--	--	--	--	--
1953 to 1955	-27	--	- 2	--	+29	--	--	--	--	--
80-3										
1953	60	--	--	17	--	--	--	77	3	80
1954	40	--	--	25	--	12	--	77	3	80
1955	33	--	--	30	--	14	--	77	3	80
Changes										
1953 to 1954	-20	--	--	+ 8	--	+12	--	--	--	--
1954 to 1955	- 7	--	--	+ 5	--	+ 2	--	--	--	--
1953 to 1955	-27	--	--	+13	--	+14	--	--	--	--







Table 2. Physical Resources and Investments for Typical 80-Acre Farms  
(80-1, 80-2, 80-3) in Upper San Joaquin Valley, 1955 Prices a/

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Land:						
Total farm	80 acres					
Cultivated land	77 acres					
Improvements:						
Shop, storage		1		\$1250.00		\$ 625.00
Tractor & equipment shed		1		500.00		250.00
Fuel storage - gas	350 gal.	1		110.00		55.00
Fuel storage - gas	550 gal.	1		135.00		67.50
Subtotal				1995.00		997.50
Irrigation facilities:						
Pumping plant (50 HP)	900 gpm	1		4900.00		2510.00
Well, casing (200' lift)	12" diam.	400'	6.50	2600.00		1300.00
Subtotal				7500.00		3810.00
Distribution system:						
Pipe	14"	3960'	.90	3564.00	.45	1782.00
Stands	5'x36"	1	9.00	45.00	4.50	22.50
Valves, alfalfa	10"	36	15.00	540.00	7.50	270.00
Vents	5'x6"	3	.75	11.25	.38	5.63
Row pipe	2"	300	1.50	450.00	.75	225.00
Siphons	1 1/2"	100	1.27	127.00	.64	63.50
Subtotal				4737.25		2368.63
Power:						
Wheel tractors	W-1	1		2600.00		1820.00
	W-2	1		3000.00		2100.00
Subtotal				5600.00		3920.00
Transportation:						
Pickup	1/2 ton	1		2000.00		1200.00
Equipment:						
Ditcher	4'	1		135.00		67.50
Chisel	8'	1		525.00		262.50
Disk-offset	6'9"	1		525.00		262.50
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	2 row	1		350.00		175.00
Cultivator	2 row	1		350.00		175.00
Cotton trailer	5 bale	4	400.00	1600.00	220.00	880.00

(Continued on next page.)

Date	Place	Description	Amount	Remarks
1900	...	...	...	...
1901	...	...	...	...
1902	...	...	...	...
1903	...	...	...	...
1904	...	...	...	...
1905	...	...	...	...
1906	...	...	...	...
1907	...	...	...	...
1908	...	...	...	...
1909	...	...	...	...
1910	...	...	...	...
1911	...	...	...	...
1912	...	...	...	...
1913	...	...	...	...
1914	...	...	...	...
1915	...	...	...	...
1916	...	...	...	...
1917	...	...	...	...
1918	...	...	...	...
1919	...	...	...	...
1920	...	...	...	...
1921	...	...	...	...
1922	...	...	...	...
1923	...	...	...	...
1924	...	...	...	...
1925	...	...	...	...
1926	...	...	...	...
1927	...	...	...	...
1928	...	...	...	...
1929	...	...	...	...
1930	...	...	...	...
1931	...	...	...	...
1932	...	...	...	...
1933	...	...	...	...
1934	...	...	...	...
1935	...	...	...	...
1936	...	...	...	...
1937	...	...	...	...
1938	...	...	...	...
1939	...	...	...	...
1940	...	...	...	...
1941	...	...	...	...
1942	...	...	...	...
1943	...	...	...	...
1944	...	...	...	...
1945	...	...	...	...
1946	...	...	...	...
1947	...	...	...	...
1948	...	...	...	...
1949	...	...	...	...
1950	...	...	...	...
1951	...	...	...	...
1952	...	...	...	...
1953	...	...	...	...
1954	...	...	...	...
1955	...	...	...	...
1956	...	...	...	...
1957	...	...	...	...
1958	...	...	...	...
1959	...	...	...	...
1960	...	...	...	...
1961	...	...	...	...
1962	...	...	...	...
1963	...	...	...	...
1964	...	...	...	...
1965	...	...	...	...
1966	...	...	...	...
1967	...	...	...	...
1968	...	...	...	...
1969	...	...	...	...
1970	...	...	...	...
1971	...	...	...	...
1972	...	...	...	...
1973	...	...	...	...
1974	...	...	...	...
1975	...	...	...	...
1976	...	...	...	...
1977	...	...	...	...
1978	...	...	...	...
1979	...	...	...	...
1980	...	...	...	...
1981	...	...	...	...
1982	...	...	...	...
1983	...	...	...	...
1984	...	...	...	...
1985	...	...	...	...
1986	...	...	...	...
1987	...	...	...	...
1988	...	...	...	...
1989	...	...	...	...
1990	...	...	...	...
1991	...	...	...	...
1992	...	...	...	...
1993	...	...	...	...
1994	...	...	...	...
1995	...	...	...	...
1996	...	...	...	...
1997	...	...	...	...
1998	...	...	...	...
1999	...	...	...	...
2000	...	...	...	...



Table 2 continued.

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Additional equipment:						
80-1 only						
Power mower	7'	1		\$ 350.00		\$ 175.00
Side delivery rake	8'	1		520.00		260.00
80-2 only						
Potato planter	2 row	1		700.00		350.00
Steel roller	6'	1		200.00		100.00
Plow, 2 way	2-16"	1		550.00		275.00
Equipment 80-1				4,770.00		2,465.00
Equipment 80-2				5,350.00		2,755.00
Equipment 80-3				3,900.00		2,030.00
Total 80-1 <u>b/</u>				\$26,602.25		\$14,761.13
Total 80-2 <u>b/</u>				\$27,182.25		\$15,051.13
Total 80-3 <u>b/</u>				\$25,732.25		\$14,326.13

a/ The designations 80-1, 80-2, 80-3 refer to three variations found in the 80 acre size group.

b/ Excluding land values.

Date	Description	Amount	Balance	Remarks
				Initial deposit
				60-1 only
				60-2 only
				60-3 only
				60-4 only
				60-5 only
				60-6 only
				60-7 only
				60-8 only
				60-9 only
				60-10 only
				60-11 only
				60-12 only
				60-13 only
				60-14 only
				60-15 only
				60-16 only
				60-17 only
				60-18 only
				60-19 only
				60-20 only
				60-21 only
				60-22 only
				60-23 only
				60-24 only
				60-25 only
				60-26 only
				60-27 only
				60-28 only
				60-29 only
				60-30 only
				60-31 only
				60-32 only
				60-33 only
				60-34 only
				60-35 only
				60-36 only
				60-37 only
				60-38 only
				60-39 only
				60-40 only
				60-41 only
				60-42 only
				60-43 only
				60-44 only
				60-45 only
				60-46 only
				60-47 only
				60-48 only
				60-49 only
				60-50 only
				60-51 only
				60-52 only
				60-53 only
				60-54 only
				60-55 only
				60-56 only
				60-57 only
				60-58 only
				60-59 only
				60-60 only
				60-61 only
				60-62 only
				60-63 only
				60-64 only
				60-65 only
				60-66 only
				60-67 only
				60-68 only
				60-69 only
				60-70 only
				60-71 only
				60-72 only
				60-73 only
				60-74 only
				60-75 only
				60-76 only
				60-77 only
				60-78 only
				60-79 only
				60-80 only
				60-81 only
				60-82 only
				60-83 only
				60-84 only
				60-85 only
				60-86 only
				60-87 only
				60-88 only
				60-89 only
				60-90 only
				60-91 only
				60-92 only
				60-93 only
				60-94 only
				60-95 only
				60-96 only
				60-97 only
				60-98 only
				60-99 only
				60-100 only

The first column (60-1, 60-2, 60-3) refers to the first column found in the 60-4000 group.

60-4000 group.



Table 3. Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
4/5 - 4/15	Irrigation	1						5.6 ac. in.
	Cut (1st)*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D.rake	31	.29	.29	
	Bale - contract							
5/5 - 5/15	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut (2nd)*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D.rake	31	.29	.29	
6/5 - 6/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut (3rd)	1	W-1	7' power mower	29	.31	.31	
7/5 - 7/15	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
8/5 - 8/15	Cut (4th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
9/5 - 9/15	Irrigate 2X	1						8 ac. in.
	Cut (5th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
10/5 - 10/15	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut (6th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut (7th)	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X							4 ac. in.

\* No cutting for first year of stand

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Table 4. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
2/1 - 3/15	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make Borders - contract							
	Landplane - contract							
	Disk	1	W-2	6'9" offset disk	22	.41	.41	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-2	6'9" offset w/8'spike	20	.45	.45	
	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
	Dust - contract							12.5# 2% parathion







Table 5. Calendar of Operations & Physical Inputs Per Acre Producing Barley on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (harrow on 2nd time)	1	W-2	6'9" offset w/8' Spike harrow	20	.90	.90	80# seed
12/20 - 1/20	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	
12/20 - 1/20	Harrow	1	W-1	12' harrow-spike	40	.22	.22	
12/22 - 1/22	Border up	1	W-2	Border disk (rented)	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						14.4 ac. in.
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							



DATE	TIME	LOCATION	WIND	TEMP	HUMID	SEA	WAVE	SWELL	WIND	TEMP	HUMID	SEA	WAVE	SWELL
1961-01-01	0800	10N 175E	10K	22C	75%	S	2M	10S	10K	22C	75%	S	2M	10S
1961-01-01	1200	10N 175E	10K	24C	78%	S	2M	10S	10K	24C	78%	S	2M	10S
1961-01-01	1600	10N 175E	10K	26C	80%	S	2M	10S	10K	26C	80%	S	2M	10S
1961-01-01	2000	10N 175E	10K	24C	78%	S	2M	10S	10K	24C	78%	S	2M	10S
1961-01-02	0400	10N 175E	10K	22C	75%	S	2M	10S	10K	22C	75%	S	2M	10S
1961-01-02	0800	10N 175E	10K	24C	78%	S	2M	10S	10K	24C	78%	S	2M	10S
1961-01-02	1200	10N 175E	10K	26C	80%	S	2M	10S	10K	26C	80%	S	2M	10S
1961-01-02	1600	10N 175E	10K	24C	78%	S	2M	10S	10K	24C	78%	S	2M	10S
1961-01-02	2000	10N 175E	10K	22C	75%	S	2M	10S	10K	22C	75%	S	2M	10S

TABLE 2: SUMMARY OF OBSERVATIONS AT 10N 175E. DATA WERE COLLECTED AT 4-HOUR INTERVALS ON 30 WERE 1961.

Table 6. Calendar of Operations &amp; Physical Inputs Per Acre for Producing Field Corn on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
3/20 - 4/15	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Furrow out	1	W-1	2 row lister planter	18	.50	.50	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.20	.20	
	Plant	2	W-2	2 row lister planter	16	1.12	.56	10# seed
	Cultivate	1	W-1	2 row cultivator	10	.90	.90	
	Irrigate	1						4 ac. in.
	Cultivate	1	W-1	2 row cultivator	12	.75	.75	
	Fertilize - contract							120# NH <sub>3</sub> (84%)
9/20 - 11/15	Irrigate 2X	1						8 ac. in.
	Cultivate	1	W-2	2 row cultivator	12	.75	.75	
	Irrigate 6X	1						24 ac. in.
	Pick & haul - contract							
	Shell - contract							

\* occurs 4 X - man-hours and tractor-hours are total for season



TABLE 2. - SUMMARY OF OBSERVATIONS AND PHYSICAL DATA FOR VESSEL "ALBATROSS" (1954-1955)		VESSEL "ALBATROSS"					
DATE	TIME	LATITUDE	LONGITUDE	WIND DIRECTION	WIND SPEED	WAVE DIRECTION	WAVE PERIOD
1954-11-15	1000	41° 15' N	173° 00' W	050	10	050	10
1954-11-15	1100	41° 30' N	172° 45' W	060	12	060	12
1954-11-15	1200	41° 45' N	172° 30' W	070	15	070	15
1954-11-15	1300	42° 00' N	172° 15' W	080	18	080	18
1954-11-15	1400	42° 15' N	172° 00' W	090	20	090	20
1954-11-15	1500	42° 30' N	171° 45' W	100	22	100	22
1954-11-15	1600	42° 45' N	171° 30' W	110	25	110	25
1954-11-15	1700	43° 00' N	171° 15' W	120	28	120	28
1954-11-15	1800	43° 15' N	171° 00' W	130	30	130	30
1954-11-15	1900	43° 30' N	170° 45' W	140	32	140	32
1954-11-15	2000	43° 45' N	170° 30' W	150	35	150	35
1954-11-15	2100	44° 00' N	170° 15' W	160	38	160	38
1954-11-15	2200	44° 15' N	170° 00' W	170	40	170	40
1954-11-15	2300	44° 30' N	169° 45' W	180	42	180	42
1954-11-15	2400	44° 45' N	169° 30' W	190	45	190	45
1954-11-15	2500	45° 00' N	169° 15' W	200	48	200	48
1954-11-15	2600	45° 15' N	169° 00' W	210	50	210	50
1954-11-15	2700	45° 30' N	168° 45' W	220	52	220	52
1954-11-15	2800	45° 45' N	168° 30' W	230	55	230	55
1954-11-15	2900	46° 00' N	168° 15' W	240	58	240	58
1954-11-15	3000	46° 15' N	168° 00' W	250	60	250	60
1954-11-15	3100	46° 30' N	167° 45' W	260	62	260	62
1954-11-15	3200	46° 45' N	167° 30' W	270	65	270	65
1954-11-15	3300	47° 00' N	167° 15' W	280	68	280	68
1954-11-15	3400	47° 15' N	167° 00' W	290	70	290	70
1954-11-15	3500	47° 30' N	166° 45' W	300	72	300	72
1954-11-15	3600	47° 45' N	166° 30' W	310	75	310	75
1954-11-15	3700	48° 00' N	166° 15' W	320	78	320	78
1954-11-15	3800	48° 15' N	166° 00' W	330	80	330	80
1954-11-15	3900	48° 30' N	165° 45' W	340	82	340	82
1954-11-15	4000	48° 45' N	165° 30' W	350	85	350	85
1954-11-15	4100	49° 00' N	165° 15' W	360	88	360	88
1954-11-15	4200	49° 15' N	165° 00' W	370	90	370	90
1954-11-15	4300	49° 30' N	164° 45' W	380	92	380	92
1954-11-15	4400	49° 45' N	164° 30' W	390	95	390	95
1954-11-15	4500	50° 00' N	164° 15' W	400	98	400	98
1954-11-15	4600	50° 15' N	164° 00' W	410	100	410	100
1954-11-15	4700	50° 30' N	163° 45' W	420	102	420	102
1954-11-15	4800	50° 45' N	163° 30' W	430	105	430	105
1954-11-15	4900	51° 00' N	163° 15' W	440	108	440	108
1954-11-15	5000	51° 15' N	163° 00' W	450	110	450	110
1954-11-15	5100	51° 30' N	162° 45' W	460	112	460	112
1954-11-15	5200	51° 45' N	162° 30' W	470	115	470	115
1954-11-15	5300	52° 00' N	162° 15' W	480	118	480	118
1954-11-15	5400	52° 15' N	162° 00' W	490	120	490	120
1954-11-15	5500	52° 30' N	161° 45' W	500	122	500	122
1954-11-15	5600	52° 45' N	161° 30' W	510	125	510	125
1954-11-15	5700	53° 00' N	161° 15' W	520	128	520	128
1954-11-15	5800	53° 15' N	161° 00' W	530	130	530	130
1954-11-15	5900	53° 30' N	160° 45' W	540	132	540	132
1954-11-15	6000	53° 45' N	160° 30' W	550	135	550	135
1954-11-15	6100	54° 00' N	160° 15' W	560	138	560	138
1954-11-15	6200	54° 15' N	160° 00' W	570	140	570	140
1954-11-15	6300	54° 30' N	159° 45' W	580	142	580	142
1954-11-15	6400	54° 45' N	159° 30' W	590	145	590	145
1954-11-15	6500	55° 00' N	159° 15' W	600	148	600	148
1954-11-15	6600	55° 15' N	159° 00' W	610	150	610	150
1954-11-15	6700	55° 30' N	158° 45' W	620	152	620	152
1954-11-15	6800	55° 45' N	158° 30' W	630	155	630	155
1954-11-15	6900	56° 00' N	158° 15' W	640	158	640	158
1954-11-15	7000	56° 15' N	158° 00' W	650	160	650	160
1954-11-15	7100	56° 30' N	157° 45' W	660	162	660	162
1954-11-15	7200	56° 45' N	157° 30' W	670	165	670	165
1954-11-15	7300	57° 00' N	157° 15' W	680	168	680	168
1954-11-15	7400	57° 15' N	157° 00' W	690	170	690	170
1954-11-15	7500	57° 30' N	156° 45' W	700	172	700	172
1954-11-15	7600	57° 45' N	156° 30' W	710	175	710	175
1954-11-15	7700	58° 00' N	156° 15' W	720	178	720	178
1954-11-15	7800	58° 15' N	156° 00' W	730	180	730	180
1954-11-15	7900	58° 30' N	155° 45' W	740	182	740	182
1954-11-15	8000	58° 45' N	155° 30' W	750	185	750	185
1954-11-15	8100	59° 00' N	155° 15' W	760	188	760	188
1954-11-15	8200	59° 15' N	155° 00' W	770	190	770	190
1954-11-15	8300	59° 30' N	154° 45' W	780	192	780	192
1954-11-15	8400	59° 45' N	154° 30' W	790	195	790	195
1954-11-15	8500	60° 00' N	154° 15' W	800	198	800	198
1954-11-15	8600	60° 15' N	154° 00' W	810	200	810	200
1954-11-15	8700	60° 30' N	153° 45' W	820	202	820	202
1954-11-15	8800	60° 45' N	153° 30' W	830	205	830	205
1954-11-15	8900	61° 00' N	153° 15' W	840	208	840	208
1954-11-15	9000	61° 15' N	153° 00' W	850	210	850	210
1954-11-15	9100	61° 30' N	152° 45' W	860	212	860	212
1954-11-15	9200	61° 45' N	152° 30' W	870	215	870	215
1954-11-15	9300	62° 00' N	152° 15' W	880	218	880	218
1954-11-15	9400	62° 15' N	152° 00' W	890	220	890	220
1954-11-15	9500	62° 30' N	151° 45' W	900	222	900	222
1954-11-15	9600	62° 45' N	151° 30' W	910	225	910	225
1954-11-15	9700	63° 00' N	151° 15' W	920	228	920	228
1954-11-15	9800	63° 15' N	151° 00' W	930	230	930	230
1954-11-15	9900	63° 30' N	150° 45' W	940	232	940	232
1954-11-15	10000	63° 45' N	150° 30' W	950	235	950	235

TABLE 2. - SUMMARY OF OBSERVATIONS AND PHYSICAL DATA FOR VESSEL "ALBATROSS" (1954-1955).  
 NOTE: - OBSERVATIONS MADE BY CREW.

Table 7. Calendar of Operations and Physical Inputs Per Acre for Producing Cotton on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
4/1 - 4/15	Cut stalks	1	W-2	2 row stalk cutter (rent)	18	.50	.50		
	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82		
	Chisel 2X	1	W-2	8' chisel	12	1.50	1.50		
	Disk	1	W-2	6'9" offset disk	22	.41	.41		
	Furrow out	1	W-2	2 row lister planter	18	.50	.50		
	Make head ditches*	1	W-2	4' ditcher		.30	.30		
	Preirrigate							6 ac.in.	6 ac.in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.30	.30		
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22		
	Plant	2	W-2	2 row lister planter	16	1.12	.56	18# acid delint seed	
4/25 - 5/5	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-1	2 row cultivator	10	.90	.90		
5/20 - 6/10	Hand thin - contract								
	Cultivate (2)	1	W-1	2 row cultivator	12	.75	.75		
	Fertilize - contract							115# NH <sub>3</sub>	130# NH <sub>3</sub>
	Cultivate (3)	1	W-1	2 row cultivator	12	.75	.75		
	Irrigate (1)	1						4 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-1	2 row cultivator	14	.64	.64		
	Irrigate (2)	1						4 ac.in.	4 ac.in.
	Cultivate (5)	1	W-1	2 row cultivator	14	.64	.64		
	Dust 2X - contract							60# 5% DDT	50% S
8/1 - 8/5	Irrigate (3)	1						4 ac.in.	5 ac.in.
	Cultivate (6)	1	W-1	2 row cultivator	14	.64	.64		
	Irrigate (4)	1						5 ac.in.	5 ac.in.
	Cultivate and lay by (7)	1	W-1	2 row cultivator	14	.64	.64		
	Irrigate 4 X (5-8)	1						16ac.in.	18 ac.in.
	Defoliate - contract							10# NaClO <sub>3</sub>	
								w/Borate or Mg.	
	Pick 1st machine - contract								
	Pick 2nd machine - contract								
	Haul to gin	1	Pick-up	5 bale cotton trailer	6	1.50	1.50		

\* occurs 6X - man-hours and tractor-hours are total for season



STATION NO.	NAME OF STATION	DATE	TIME	WIND DIRECTION	WIND VELOCITY	WAVE DIRECTION	WAVE VELOCITY	SEA STATE	REMARKS
101 - 102	STATION 101 - 102	10/10/10	10:10	101	10	101	10	10	10
103 - 104	STATION 103 - 104	10/10/10	10:10	103	10	103	10	10	10
105 - 106	STATION 105 - 106	10/10/10	10:10	105	10	105	10	10	10
107 - 108	STATION 107 - 108	10/10/10	10:10	107	10	107	10	10	10
109 - 110	STATION 109 - 110	10/10/10	10:10	109	10	109	10	10	10
111 - 112	STATION 111 - 112	10/10/10	10:10	111	10	111	10	10	10
113 - 114	STATION 113 - 114	10/10/10	10:10	113	10	113	10	10	10
115 - 116	STATION 115 - 116	10/10/10	10:10	115	10	115	10	10	10
117 - 118	STATION 117 - 118	10/10/10	10:10	117	10	117	10	10	10
119 - 120	STATION 119 - 120	10/10/10	10:10	119	10	119	10	10	10
121 - 122	STATION 121 - 122	10/10/10	10:10	121	10	121	10	10	10
123 - 124	STATION 123 - 124	10/10/10	10:10	123	10	123	10	10	10
125 - 126	STATION 125 - 126	10/10/10	10:10	125	10	125	10	10	10
127 - 128	STATION 127 - 128	10/10/10	10:10	127	10	127	10	10	10
129 - 130	STATION 129 - 130	10/10/10	10:10	129	10	129	10	10	10
131 - 132	STATION 131 - 132	10/10/10	10:10	131	10	131	10	10	10
133 - 134	STATION 133 - 134	10/10/10	10:10	133	10	133	10	10	10
135 - 136	STATION 135 - 136	10/10/10	10:10	135	10	135	10	10	10
137 - 138	STATION 137 - 138	10/10/10	10:10	137	10	137	10	10	10
139 - 140	STATION 139 - 140	10/10/10	10:10	139	10	139	10	10	10
141 - 142	STATION 141 - 142	10/10/10	10:10	141	10	141	10	10	10
143 - 144	STATION 143 - 144	10/10/10	10:10	143	10	143	10	10	10
145 - 146	STATION 145 - 146	10/10/10	10:10	145	10	145	10	10	10
147 - 148	STATION 147 - 148	10/10/10	10:10	147	10	147	10	10	10
149 - 150	STATION 149 - 150	10/10/10	10:10	149	10	149	10	10	10
151 - 152	STATION 151 - 152	10/10/10	10:10	151	10	151	10	10	10
153 - 154	STATION 153 - 154	10/10/10	10:10	153	10	153	10	10	10
155 - 156	STATION 155 - 156	10/10/10	10:10	155	10	155	10	10	10
157 - 158	STATION 157 - 158	10/10/10	10:10	157	10	157	10	10	10
159 - 160	STATION 159 - 160	10/10/10	10:10	159	10	159	10	10	10
161 - 162	STATION 161 - 162	10/10/10	10:10	161	10	161	10	10	10
163 - 164	STATION 163 - 164	10/10/10	10:10	163	10	163	10	10	10
165 - 166	STATION 165 - 166	10/10/10	10:10	165	10	165	10	10	10
167 - 168	STATION 167 - 168	10/10/10	10:10	167	10	167	10	10	10
169 - 170	STATION 169 - 170	10/10/10	10:10	169	10	169	10	10	10
171 - 172	STATION 171 - 172	10/10/10	10:10	171	10	171	10	10	10
173 - 174	STATION 173 - 174	10/10/10	10:10	173	10	173	10	10	10
175 - 176	STATION 175 - 176	10/10/10	10:10	175	10	175	10	10	10
177 - 178	STATION 177 - 178	10/10/10	10:10	177	10	177	10	10	10
179 - 180	STATION 179 - 180	10/10/10	10:10	179	10	179	10	10	10
181 - 182	STATION 181 - 182	10/10/10	10:10	181	10	181	10	10	10
183 - 184	STATION 183 - 184	10/10/10	10:10	183	10	183	10	10	10
185 - 186	STATION 185 - 186	10/10/10	10:10	185	10	185	10	10	10
187 - 188	STATION 187 - 188	10/10/10	10:10	187	10	187	10	10	10
189 - 190	STATION 189 - 190	10/10/10	10:10	189	10	189	10	10	10
191 - 192	STATION 191 - 192	10/10/10	10:10	191	10	191	10	10	10
193 - 194	STATION 193 - 194	10/10/10	10:10	193	10	193	10	10	10
195 - 196	STATION 195 - 196	10/10/10	10:10	195	10	195	10	10	10
197 - 198	STATION 197 - 198	10/10/10	10:10	197	10	197	10	10	10
199 - 200	STATION 199 - 200	10/10/10	10:10	199	10	199	10	10	10

Table 8. Calendar of Operations & Physical Inputs Per Acre for Producing Milo on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
6/15 - 7/15	Disk 2X	1	W-2	6'9" Offset disk	22	.82	.82	6 ac. in.
	Furrow out	1	W-1	2 row lister planter	18	.50	.50	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate	1						
	Fill in ditches*	1	W-2	4' scraper (rented)		.20	.20	
	Disk w/cultipacker attached	1	W-2	6'9" offset w/10' cultipacker	20	.45	.45	10# seed 5 ac. in.
	Plant	2	W-2	2 row lister planter	16	1.12	.56	
	Irrigate	1						
	Cultivate	1	W-1	2 row cultivator	10	.90	.90	4 ac. in.
	Cultivate	1	W-1	2 row cultivator	12	.75	.75	
7/15 - 8/15	Irrigate	1						
7/25 - 9/5	Cultivate	1	W-1	2 row cultivator	12	.75	.75	12 ac. in.
7/25 - 9/5	Irrigate 3X	1						
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

\* occurs 4X - man-hours and tractor-hours are total for season





Table 9. Calendar of Operations and Physical Inputs Per Acre for Producing Potatoes on 80 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1/5 - 2/5	Disk 2X	1	W-2	6'9" offset disk	22	.82	.82	
	Plow	1	W-2	2 w/2-16"	10	.90	.90	
	Disk w/harrow	1	W-2	6'9" offset w/8' spiketooth	20	.45	.45	
	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	16 cwt seed 800# 17-7-0
	Harrow beds	1	W-1	12' spiketooth	40	.22	.22	
2/20 - 2/30	Cultivate & Furrow out	1	W-1	2 row cultivator	10	.90	.90	
	Make head ditches*	1	W-2	4' ditcher		.10	.10	
	Irrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.10	.10	
3/20 - 6/1	Cultivate & Furrow out	1	W-1	2 row cultivator	12	.75	.75	
	Irrigate continuous	1						30 ac. in.
	Dust 1X - contract							30# of 5% DDT 50% S
5/20 - 6/20	Roll	1	W-1	6' steel roller	30	.30	.30	
	Rotobeat - contract							
	Dig - contract							
	Pick - contract							
5/20 - 6/20	Haul - contract							

\* occurs 2X - man-hours and tractor-hours are total for season



OFFICE OF THE DIRECTOR, FBI  
WASHINGTON, D. C. 20535  
JULY 10, 1964

TO: SAC, NEW YORK  
FROM: SAC, NEW YORK  
SUBJECT: [Illegible]

RE: [Illegible]

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Table 10. Annual Tractor and Equipment Hours, 1955 and 1953; 80-1 Farms in  
Upper San Joaquin Valley

Item	Cotton			Alfalfa			Barley		Milo		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	per acre	1955 total (30 acres)	1953 total (17 acres)	per acre	1955 total (14 acres)	per acre	1955 total (14 acres)	1955	1953
W-1	5.45	179.85	327.00	4.31	129.30	73.27	.44	6.16	2.90	40.60	355.91	400.27
W-2	4.89	161.37	293.40	.42	12.60	7.14	1.12	15.68	2.23	31.22	220.87	300.54
Pickup											10,000	miles
4' ditcher	.30	9.90	18.00						.20	2.80	12.70	18.00
8' chisel	1.50	49.50	90.00								49.50	90.00
6'9" offset disk	1.23	40.59	73.80	.42	12.60	7.14	.90	12.60	1.27	17.78	96.27	80.94
8' spiketooth harrow				.11	3.30	1.87	.90	12.60				
12' spiketooth harrow	.22	7.26	13.20	.05	1.50	.85					19.36a/	15.30a/
10' cultipacker	.27	8.91	16.20						.45	6.30	15.21	16.20
2 row lister planter	1.06	34.98	63.60						1.06	14.84	49.82	63.60
2 row cultivator	4.96	163.68	297.60						2.40	33.60	197.28	297.60
Cotton trailer 5 bale	1.50	49.50	90.00								49.50	90.00
7' power mower				2.17	65.10	36.89					65.10	36.89
8' side delivery rake				2.03	60.90	34.51					60.90	34.51

a/ Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus all 12' spiketooth harrow hours.



*(continued)*

*(Continued)*

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1900

THE UNIVERSITY OF CHICAGO

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1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

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Table 11. Irrigation Water Use, 1955 and 1953; for 80-1 Farms in  
Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(33 acres)		(30 acres)		(14 acres)		(14 acres)		
1/1 - 4/30	6.0	198	13.6	408	14.4	201.6	-	-	807.6
5/1 - 6/30	8.0	264	16.0	480	-	-	6.0	84	828
7/1 - 8/31	23.5	775.5	16.0	480	-	-	17.0	238	1493.5
9/1 - 12/31	4.5	148.5	12.0	360	-	-	4.0	56	564.5
Seasonal per acre	42.00	-	57.60	-	14.40	-	27.00	-	-
Seasonal per farm	-	1386	-	1728	-	201.6	-	378	3693.6
<u>1953</u>	(60 acres)		(17 acres)		(-----)		(-----)		
1/1 - 4/30	6.0	360	13.6	231.2	-	-	-	-	591.2
5/1 - 6/30	8.0	480	16.0	272.0	-	-	-	-	752.0
7/1 - 8/31	21.0	1260	16.0	272.0	-	-	-	-	1532.0
9/1 - 12/31	4.0	240	12.0	204.0	-	-	-	-	444.0
Seasonal per acre	39.00	-	57.60	-	-	-	-	-	-
Seasonal per farm	-	2340	-	979.2	-	-	-	-	3319.2



Name		Address		City		State		Zip	
John Doe	123 Main St	Anytown	CA	90210					
Jane Smith	456 Elm St	Springfield	IL	62701					
Bob Johnson	789 Oak St	Chicago	IL	60601					
Alice Brown	101 Pine St	Los Angeles	CA	90001					
Charlie White	202 Cedar St	San Francisco	CA	94101					
Diana Green	303 Birch St	New York	NY	10001					
Frank Black	404 Maple St	Washington	DC	20001					
Grace Hall	505 Walnut St	Philadelphia	PA	19101					
Henry King	606 Chestnut St	Boston	MA	02101					
Ivy Lee	707 Spruce St	Seattle	WA	98101					
Jack Miller	808 Ash St	Portland	OR	97201					
Karen Davis	909 Hickory St	Denver	CO	80201					
Leo Wilson	1010 Sycamore St	San Diego	CA	92101					
Mary Taylor	1111 Dogwood St	Atlanta	GA	30301					
Nathan Moore	1212 Magnolia St	Phoenix	AZ	85001					
Olivia Baker	1313 Tulip St	San Jose	CA	95101					
Peter Clark	1414 Rose St	San Antonio	TX	78201					
Quinn Adams	1515 Iris St	Fort Worth	TX	76101					
Rachel Lewis	1616 Dandelion St	Las Vegas	NV	89101					
Samuel Hall	1717 Poppy St	Albuquerque	NM	87101					
Tina Young	1818 Sunflower St	San Jose	CA	95101					
Victor King	1919 Clover St	San Jose	CA	95101					
Wendy Green	2020 Daisy St	San Jose	CA	95101					
Xavier White	2121 Lily St	San Jose	CA	95101					
Yvonne Black	2222 Orchid St	San Jose	CA	95101					
Zoe Hall	2323 Pansy St	San Jose	CA	95101					

Table 12. Inputs and Costs for Producing Alfalfa on 80-1

1955 Yield: 6.25 Tons    1953 Yield: 6.25 Tons

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 30 acres	1953 17 acres
<u>Overhead:</u>							
Real estate taxes	-	-	-	6.50	6.50	201.50 <sup>a</sup>	117.00 <sup>a</sup>
Office	-	-	-	1.95	1.95	58.44 <sup>a</sup>	33.12 <sup>a</sup>
Improvements	-	-	-	2.17	2.17	64.95 <sup>a</sup>	36.82 <sup>a</sup>
Power	-	-	-	7.69	6.89	230.70	117.13
Equipment	-	-	-	3.68	6.48	110.40	110.16
Irrigation water	-	-	-	14.28	15.90	428.40	270.30
1/4 cost to establish stand	-	-	-	10.31	10.30	309.22	175.14
Total overhead				46.58	50.19	1403.61	859.67
<u>Operating:</u>							
<u>Power:</u>							
Tractor W-1	.502	.522	4.20 Hr.	2.11	2.19	63.30	37.23
Pickup	1955 .035	-	81.0 Mi.	2.84	-	85.20	-
	1953 -	.035	73.0 Mi.	-	2.56	-	43.52
<u>Equipment:</u>							
7' power mower	.538	.948	2.17 Hr.	1.17	2.06	35.10	35.02
8' S. D. rake	.853	1.507	2.03 Hr.	1.73	3.06	51.90	52.02
<u>Materials:</u>							
Irrigation water	.427	.455	57.6 ac."	24.60	26.21	738.00	445.57
<u>Labor:</u>							
Drivers	1955 1.00	-	6.20 Hr.	6.20	-	186.00	-
	1953 -	1.00	6.02 Hr.	-	6.02	-	102.34
Irrigator	.90	.90	28.80 Hr.	25.92	25.92	777.60	440.64
Soc. Sec. & Comp. Insur.	-	-	-	1.86	1.85	55.80	31.45
<u>Contracts:</u>							
Bale	3.50	3.50	6.25 ton	21.88	21.88	656.40	371.96
Roadside	1.75	1.75	6.25 ton	10.94	10.94	328.20	185.98
Total operating	-	-	-	99.25	102.69	2977.50	1745.73
Total Cost	-	-	-	145.83	152.88	4381.11	2605.40

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres due to adjustment for noncrop acres.



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5. The History of Music	6. The History of Literature
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9. The History of Photography	10. The History of Design
11. The History of Fashion	12. The History of Interiors
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21. The History of Medicine	22. The History of Law
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49. The History of Environmental Economics	50. The History of Environmental Technology

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Table 13. Cost of Inputs to Establish an Alfalfa Stand on 80-1

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 30 acres	1953 17 acres
Power:							
Tractor W-1	1.505	1.414	.44 Hr.	.66	.62	19.80	10.54
Tractor W-2	2.980	2.397	1.68 Hr.	5.01	4.03	150.30	68.51
Equipment:							
6'9" offset disk	1.508	1.794	1.68 Hr.	2.53	3.01	75.90	51.17
8' spiketooth	.351	.445	.45 Hr.	.16	.20	4.80	3.40
12' spiketooth	.527	.667	.22 Hr.	.12	.15	3.60	2.55
Broadcaster (rent)	.25	.25	.22 Hr.	.06	.06	1.80	1.02
Materials:							
Irrigation water	.675	.731	8.0 ac."	5.40	5.85	162.00	99.45
Seed	.34	.34	25 lbs.	.85	.85	25.50	14.45
Labor:							
Drivers	1.00	1.00	2.12 Hr.	2.12	2.12	63.60	36.04
Irrigator	.90	.90	4.00 Hr.	3.60	3.60	108.00	61.20
Soc. Sec. & Comp. Insur.	-	-	-	.33	.33	9.90	5.61
Contracts:							
Chisel 2X	-	-	-	5.50	5.50	165.00	93.50
Landplane 3X	-	-	-	12.00	12.00	360.00	204.00
Make borders	-	-	-	.75	.75	22.50	12.75
Dust (2% parathion)	-	-	12.5 lbs.	2.14	2.14	64.20	36.38
Total Cost	-	-	-	41.23	41.21	1236.90	700.57
Amount charged off annually <u>a/</u>				10.31	10.30	309.22	175.14

a/ Total cost to establish stand is depreciated over four years.



1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

Table 14. Inputs and Costs for Producing Barley on 80-1  
1955 Yield: 25 cwt

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 14 acres	1953 acres
<b>Overhead:</b>							
Real estate taxes	-	-	-	3.25 <sup>b</sup> /	-	48.75 <sup>a</sup> /	-
Office	-	-	-	.97 <sup>b</sup> /	-	13.64 <sup>a</sup> /	-
Improvements	-	-	-	1.08 <sup>b</sup> /	-	15.16 <sup>a</sup> /	-
Power	-	-	-	2.56	-	35.84	-
Equipment	-	-	-	.98	-	13.72	-
Irrigation water	-	-	-	3.57	-	49.98	-
Total overhead				12.41		177.09	
<b>Operating:</b>							
Power:							
Tractor W-1	.502	-	.44 Hr.	.22	-	3.08	-
Tractor W-2	1.115	-	1.12 Hr.	1.25	-	17.50	-
Pickup	.035	-	81.0 Mi.	2.84	-	39.76	-
Equipment:							
6'9" offset disk	.818	-	.90 Hr.	.74	-	10.36	-
8' spiketooth	.062	-	.90 Hr.	.06	-	.84	-
12' spiketooth	.093	-	.22 Hr.	.02	-	.28	-
Border disk (rent)	.50	-	.22 Hr.	.11	-	1.54	-
Broadcaster (rent)	.25	-	.22 Hr.	.06	-	.84	-
Materials:							
Irrigation water	.427	-	14.4 ac."	6.15	-	86.10	-
Seed	.04	-	80 lbs	3.20	-	44.80	-
Labor:							
Drivers	1.00	-	3.56 Hr.	3.56	-	49.84	-
Irrigator	.90	-	7.20 Hr.	6.48	-	90.72	-
Soc. Sec. & Comp. Insur.	-	-	-	.58	-	8.12	-
Contracts:							
Harvest	-	-	-	5.00	-	70.00	-
Haul	.10	-	25 cwt	2.50	-	35.00	-
Storage	.144	-	25 cwt	3.60	-	50.40	-
Insurance (\$1.50 per \$100 of value)	-	-	-	.81	-	11.34	-
Interest on operating capital	-	-	-	.71	-	9.91	-
Total operating	-	-	-	37.89	-	530.43	-
Total cost	-	-	-	50.30	-	707.52	-

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

<sup>b</sup>/ Because of double crop, one-half of the rate allocated to each crop.



*(continued)*

Table 15. Inputs and Costs for Producing Cotton on 80-1

1955 Yield: 2.5 Bales      1953 Yield: 2.1 Bales

Item	Unit Cost		Units used per acre	Cost Per Acre		Total Cost	
	1955	1953		1955	1953	1955	1953
	2	3		5	6	33 acres	60 acres
1	2	3	4	5	6	7	8
<u>Overhead:</u>							
Real estate taxes				6.50	6.50	221.00a/	403.00a/
Office				1.95	1.95	64.28a/	116.88a/
Improvements				2.17	2.17	71.45a/	129.90a/
Power				21.51	17.84	709.83	1,070.40
Equipment				16.30	10.28	537.90	616.80
Irrigation water				10.42	10.76	343.86	645.60
Total overhead				58.85	49.50	1948.32	2,982.58
<u>Operating:</u>							
<u>Power:</u>							
Tractor W-1	.502	.522	5.45 hr	2.74	2.84	90.42	170.40
Tractor W-2	1.115	1.026	4.89 hr	5.45	5.02	179.85	301.20
Pickup 1955	.035		161.0 mi	5.64		186.12	
1953		.035	146.0 mi		5.11		306.60
<u>Equipment:</u>							
4' ditcher	.319	.225	.30 hr	.10	.07	3.30	4.20
8' chisel	1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk	.818	.973	1.23 hr	1.01	1.20	33.33	72.00
12' spiketooth	.093	.118	.22 hr	.02	.03	.66	1.80
10' cultipacker	2.137	2.006	.27 hr	.58	.54	19.14	32.40
2 row lister planter	.702	.550	1.06 hr	.74	.58	24.42	34.80
2 row cultivator	.355	.235	4.96 hr	1.76	1.17	58.08	70.20
5 bale cotton trailer	.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)	.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)	1.00	1.00	.50 hr	.50	.50	16.50	30.00
<u>Materials:</u>							
Irrigation water 1955	.427		42.0 ac"	17.93		591.69	
1953		.455	39.0 ac"		17.74		1,064.40
Seed (acid delint)	.115	.115	18.0 lbs	2.07	2.07	68.31	124.20
<u>Labor:</u>							
Drivers 1955	1.00		15.59 hr	15.59		514.47	
1953		1.00	15.29 hr		15.29		917.40
Irrigator 1955	.90		21.0 hr	18.90		623.70	
1953		.90	19.5 hr		17.55		1,053.00
General	.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.				2.03	1.93	66.99	115.80

(Continued on next page.)



Date		Time		Location		Remarks	
1914	10/1	10.0	10.1	10.2	10.3	10.4	10.5
1914	10/2	10.6	10.7	10.8	10.9	11.0	11.1
1914	10/3	11.2	11.3	11.4	11.5	11.6	11.7
1914	10/4	11.8	11.9	12.0	12.1	12.2	12.3
1914	10/5	12.4	12.5	12.6	12.7	12.8	12.9
1914	10/6	13.0	13.1	13.2	13.3	13.4	13.5
1914	10/7	13.6	13.7	13.8	13.9	14.0	14.1
1914	10/8	14.2	14.3	14.4	14.5	14.6	14.7
1914	10/9	14.8	14.9	15.0	15.1	15.2	15.3
1914	10/10	15.4	15.5	15.6	15.7	15.8	15.9
1914	10/11	16.0	16.1	16.2	16.3	16.4	16.5
1914	10/12	16.6	16.7	16.8	16.9	17.0	17.1
1914	10/13	17.2	17.3	17.4	17.5	17.6	17.7
1914	10/14	17.8	17.9	18.0	18.1	18.2	18.3
1914	10/15	18.4	18.5	18.6	18.7	18.8	18.9
1914	10/16	19.0	19.1	19.2	19.3	19.4	19.5
1914	10/17	19.6	19.7	19.8	19.9	20.0	20.1
1914	10/18	20.2	20.3	20.4	20.5	20.6	20.7
1914	10/19	20.8	20.9	21.0	21.1	21.2	21.3
1914	10/20	21.4	21.5	21.6	21.7	21.8	21.9
1914	10/21	22.0	22.1	22.2	22.3	22.4	22.5
1914	10/22	22.6	22.7	22.8	22.9	23.0	23.1
1914	10/23	23.2	23.3	23.4	23.5	23.6	23.7
1914	10/24	23.8	23.9	24.0	24.1	24.2	24.3
1914	10/25	24.4	24.5	24.6	24.7	24.8	24.9
1914	10/26	25.0	25.1	25.2	25.3	25.4	25.5
1914	10/27	25.6	25.7	25.8	25.9	26.0	26.1
1914	10/28	26.2	26.3	26.4	26.5	26.6	26.7
1914	10/29	26.8	26.9	27.0	27.1	27.2	27.3
1914	10/30	27.4	27.5	27.6	27.7	27.8	27.9
1914	10/31	28.0	28.1	28.2	28.3	28.4	28.5
1914	11/1	28.6	28.7	28.8	28.9	29.0	29.1
1914	11/2	29.2	29.3	29.4	29.5	29.6	29.7
1914	11/3	29.8	29.9	30.0	30.1	30.2	30.3
1914	11/4	30.4	30.5	30.6	30.7	30.8	30.9
1914	11/5	31.0	31.1	31.2	31.3	31.4	31.5
1914	11/6	31.6	31.7	31.8	31.9	32.0	32.1
1914	11/7	32.2	32.3	32.4	32.5	32.6	32.7
1914	11/8	32.8	32.9	33.0	33.1	33.2	33.3
1914	11/9	33.4	33.5	33.6	33.7	33.8	33.9
1914	11/10	34.0	34.1	34.2	34.3	34.4	34.5
1914	11/11	34.6	34.7	34.8	34.9	35.0	35.1
1914	11/12	35.2	35.3	35.4	35.5	35.6	35.7
1914	11/13	35.8	35.9	36.0	36.1	36.2	36.3
1914	11/14	36.4	36.5	36.6	36.7	36.8	36.9
1914	11/15	37.0	37.1	37.2	37.3	37.4	37.5
1914	11/16	37.6	37.7	37.8	37.9	38.0	38.1
1914	11/17	38.2	38.3	38.4	38.5	38.6	38.7
1914	11/18	38.8	38.9	39.0	39.1	39.2	39.3
1914	11/19	39.4	39.5	39.6	39.7	39.8	39.9
1914	11/20	40.0	40.1	40.2	40.3	40.4	40.5
1914	11/21	40.6	40.7	40.8	40.9	41.0	41.1
1914	11/22	41.2	41.3	41.4	41.5	41.6	41.7
1914	11/23	41.8	41.9	42.0	42.1	42.2	42.3
1914	11/24	42.4	42.5	42.6	42.7	42.8	42.9
1914	11/25	43.0	43.1	43.2	43.3	43.4	43.5
1914	11/26	43.6	43.7	43.8	43.9	44.0	44.1
1914	11/27	44.2	44.3	44.4	44.5	44.6	44.7
1914	11/28	44.8	44.9	45.0	45.1	45.2	45.3
1914	11/29	45.4	45.5	45.6	45.7	45.8	45.9
1914	11/30	46.0	46.1	46.2	46.3	46.4	46.5
1914	12/1	46.6	46.7	46.8	46.9	47.0	47.1
1914	12/2	47.2	47.3	47.4	47.5	47.6	47.7
1914	12/3	47.8	47.9	48.0	48.1	48.2	48.3
1914	12/4	48.4	48.5	48.6	48.7	48.8	48.9
1914	12/5	49.0	49.1	49.2	49.3	49.4	49.5
1914	12/6	49.6	49.7	49.8	49.9	50.0	50.1
1914	12/7	50.2	50.3	50.4	50.5	50.6	50.7
1914	12/8	50.8	50.9	51.0	51.1	51.2	51.3
1914	12/9	51.4	51.5	51.6	51.7	51.8	51.9
1914	12/10	52.0	52.1	52.2	52.3	52.4	52.5
1914	12/11	52.6	52.7	52.8	52.9	53.0	53.1
1914	12/12	53.2	53.3	53.4	53.5	53.6	53.7
1914	12/13	53.8	53.9	54.0	54.1	54.2	54.3
1914	12/14	54.4	54.5	54.6	54.7	54.8	54.9
1914	12/15	55.0	55.1	55.2	55.3	55.4	55.5
1914	12/16	55.6	55.7	55.8	55.9	56.0	56.1
1914	12/17	56.2	56.3	56.4	56.5	56.6	56.7
1914	12/18	56.8	56.9	57.0	57.1	57.2	57.3
1914	12/19	57.4	57.5	57.6	57.7	57.8	57.9
1914	12/20	58.0	58.1	58.2	58.3	58.4	58.5
1914	12/21	58.6	58.7	58.8	58.9	59.0	59.1
1914	12/22	59.2	59.3	59.4	59.5	59.6	59.7
1914	12/23	59.8	59.9	60.0	60.1	60.2	60.3
1914	12/24	60.4	60.5	60.6	60.7	60.8	60.9
1914	12/25	61.0	61.1	61.2	61.3	61.4	61.5
1914	12/26	61.6	61.7	61.8	61.9	62.0	62.1
1914	12/27	62.2	62.3	62.4	62.5	62.6	62.7
1914	12/28	62.8	62.9	63.0	63.1	63.2	63.3
1914	12/29	63.4	63.5	63.6	63.7	63.8	63.9
1914	12/30	64.0	64.1	64.2	64.3	64.4	64.5
1914	12/31	64.6	64.7	64.8	64.9	65.0	65.1

Table 15 continued.

Item	Unit Cost		Units used per acre	Cost Per Acre		Total Cost	
	1955	1953		1955	1953	1955 33 acres	1953 60 acres
	2	3	4	5	6	7	8
Contracts:							
Fertilize (NH <sub>3</sub> ) 1955			130 lbs	15.40		508.20	
(NH <sub>3</sub> ) 1953			115 lbs		13.58		814.80
Dust 2X (5% DDT - 50% sulfur)			60 lbs	8.10	8.10	267.30	486.00
Hand thin				5.00	5.00	165.00	300.00
Hand weed				5.00	5.00	165.00	300.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg.)			10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine 1955	24.50		2.5 bale	61.25		2021.25	
1953		24.50	2.1 bale		51.45		3,087.00
Gin 1955	14.70		2.5 bale	36.75		1212.75	
1953		14.70	2.1 bale		30.87		1,852.20
Insur. & storage 1955	1.19		2.5 bale	2.98		98.34	
1953		1.19	2.1 bale		2.50		150.00
Interest on operating capital				2.78	2.60	91.84	155.76
Total operating				220.27	197.31	7269.01	11,838.36
Total cost				279.12	246.81	9217.33	14,820.94

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Date		Description		Amount	
1890	Jan 1	Balance		100.00	
	Feb 1	Interest		5.00	
	Mar 1	Interest		5.00	
	Apr 1	Interest		5.00	
	May 1	Interest		5.00	
	Jun 1	Interest		5.00	
	Jul 1	Interest		5.00	
	Aug 1	Interest		5.00	
	Sep 1	Interest		5.00	
	Oct 1	Interest		5.00	
	Nov 1	Interest		5.00	
	Dec 1	Interest		5.00	
1891	Jan 1	Balance		100.00	
	Feb 1	Interest		5.00	
	Mar 1	Interest		5.00	
	Apr 1	Interest		5.00	
	May 1	Interest		5.00	
	Jun 1	Interest		5.00	
	Jul 1	Interest		5.00	
	Aug 1	Interest		5.00	
	Sep 1	Interest		5.00	
	Oct 1	Interest		5.00	
	Nov 1	Interest		5.00	
	Dec 1	Interest		5.00	
1892	Jan 1	Balance		100.00	
	Feb 1	Interest		5.00	
	Mar 1	Interest		5.00	
	Apr 1	Interest		5.00	
	May 1	Interest		5.00	
	Jun 1	Interest		5.00	
	Jul 1	Interest		5.00	
	Aug 1	Interest		5.00	
	Sep 1	Interest		5.00	
	Oct 1	Interest		5.00	
	Nov 1	Interest		5.00	
	Dec 1	Interest		5.00	

By order of the Board of Directors, Secretary



Table 16. Inputs and Costs for Producing Milo on 80-1

1955 Yield: 30 cwt

Item	Unit	Cost	Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 14 acres	1953 acres
Overhead:							
Real estate taxes	-	-	-	3.25b/	-	48.75a/	-
Office	-	-	-	.97b/	-	13.64a/	-
Improvements	-	-	-	1.08b/	-	15.16a/	-
Power	-	-	-	10.55	-	147.70	-
Equipment	-	-	-	3.85	-	53.90	-
Irrigation water	-	-	-	6.70	-	93.80	-
Total overhead	-	-	-	26.40	-	372.95	-
Operating:							
Power:							
Tractor W-1	.502	-	2.90 Hr.	1.46	-	20.44	-
Tractor W-2	1.115	-	2.23 Hr.	2.49	-	34.86	-
Pickup	.035	-	81.0 Mi.	2.84	-	39.76	-
Equipment:							
4' ditcher	.319	-	.20 Hr.	.06	-	.84	-
6'9" offset disk	.818	-	1.27 Hr.	1.04	-	14.56	-
10' cultipacker	2.137	-	.45 Hr.	.96	-	13.44	-
2 row lister planter	.702	-	1.06 Hr.	.74	-	10.36	-
2 row cultivator	.355	-	2.40 Hr.	.85	-	11.90	-
4' scraper (rent)	.50	-	.20 Hr.	.10	-	1.40	-
Materials:							
Irrigation water	.427	-	27.0 ac."	11.53	-	161.42	-
Seed	.08	-	10 lbs	.80	-	11.20	-
Labor:							
Drivers	1.00	-	7.13 Hr.	7.13	-	99.82	-
Irrigator	.90	-	13.50 Hr.	12.15	-	170.10	-
General	.90	-	.56 Hr.	.50	-	7.00	-
Soc. Sec. & Comp. Insur.	-	-	-	1.15	-	16.06	-
Contracts:							
Harvest	-	-	-	6.00	-	84.00	-
Haul	.10	-	30 cwt	3.00	-	42.00	-
Storage	.144	-	30 cwt	4.32	-	60.48	-
Insurance (\$1.50 per \$100 of value)	-	-	-	1.04	-	14.56	-
Interest on operating capital	-	-	-	1.40	-	19.64	-
Total operating	-	-	-	59.56	-	833.84	-
Total cost	-	-	-	85.96	-	1206.79	-

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

Table 10. Inputs and Outputs for Processing 1000 lb of Fish

1000 lb of Fish (1000 lb) = 1000 lb

Item	Quantity	Unit	Value
1. Fish	1000	lb	1000
2. Fuel	100	gal	100
3. Electricity	100	kwh	100
4. Water	100	gal	100
5. Ice	100	lb	100
6. Packaging	100	lb	100
7. Labor	100	hr	100
8. Transport	100	mi	100
9. Marketing	100	lb	100
10. Total			1000
11. Fish	1000	lb	1000
12. Fuel	100	gal	100
13. Electricity	100	kwh	100
14. Water	100	gal	100
15. Ice	100	lb	100
16. Packaging	100	lb	100
17. Labor	100	hr	100
18. Transport	100	mi	100
19. Marketing	100	lb	100
20. Total			1000
21. Fish	1000	lb	1000
22. Fuel	100	gal	100
23. Electricity	100	kwh	100
24. Water	100	gal	100
25. Ice	100	lb	100
26. Packaging	100	lb	100
27. Labor	100	hr	100
28. Transport	100	mi	100
29. Marketing	100	lb	100
30. Total			1000

1000 lb of Fish (1000 lb) = 1000 lb

Table 17. Annual Tractor and Equipment Hours, 1955 and 1953; 80-2 Farms in Upper San Joaquin Valley

Item	Cotton			Potatoes			Corn		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	acre	1955 total (15 acres)	1953 total (17 acres)	acre	1955 total (29 acres)	1955	1953
W-1	5.45	179.85	327.00	2.17	32.55	36.89	2.90	84.10	296.50	363.89
W-2	4.89	161.37	293.40	3.65	54.75	62.05	2.68	77.72	293.84	355.45
Pickup									10,000 miles	
4' ditcher	.30	9.90	18.00	.10	1.50	1.70	.20	5.80	17.20	19.70
2 w/2-16" plow				.90	13.50	15.30	.90	26.10	39.60	15.30
8' chisel	1.50	49.50	90.00						49.50	90.00
6'9" offset disk	1.23	40.59	73.80	1.27	19.05	21.59	.82	23.75	83.42	95.39
8' spiketooth harrow				.45	6.75	7.65				
12' spiketooth harrow	.22	7.26	13.20	.22	3.30	3.74			15.06 <sup>a/</sup>	22.04 <sup>a/</sup>
10' cultipacker	.27	8.91	16.20						8.91	16.20
2 row lister planter	1.06	34.98	63.60				1.06	30.74	65.72	63.60
2 row cultivator	4.96	163.68	297.60	1.65	24.75	28.05	2.40	69.60	258.03	325.65
cotton trailer-5 bale	1.50	49.50	90.00						49.50	90.00
2 row potato planter				1.28	19.20	21.76			19.20	21.76
6' steel roller				.30	4.50	5.10			4.50	5.10

<sup>a/</sup> Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus 12' spiketooth harrow hours.



THE ABOVE INFORMATION WAS OBTAINED FROM THE FOLLOWING SOURCES:

Table 18. Irrigation Water Use, 1955 and 1953, For 80-2 Farms in Upper San Joaquin Valley

Year and period	Cotton		Potatoes		Corn		All crop total
	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(33 acres)		(15 acres)		(29 acres)		
1/1 - 4/30	6.0	198	22.0	330	6.0	174	702
5/1 - 6/30	8.0	264	14.0	210	12.0	348	822
7/1 - 8/31	23.5	775.5	-	-	24.0	696	1471.5
9/1 - 12/31	4.5	148.5	-	-	-	-	148.5
Seasonal per acre	42.00	-	36.00	-	42.00	-	-
Seasonal per farm	-	1386	-	540	-	1218	3144
<u>1953</u>	(60 acres)		(17 acres)		(-----)		
1/1 - 4/30	6.0	360	22.0	374	-	-	734
5/1 - 6/30	8.0	480	14.0	238	-	-	718
7/1 - 8/31	21.0	1260	-	-	-	-	1260
9/1 - 12/31	4.0	240	-	-	-	-	240
Seasonal per acre	39.00	-	36.00	-	-	-	-
Seasonal per farm	-	2340	-	612	-	-	2952

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Table 19. Inputs and Costs for Producing Field Corn on 80-2

1955 Yield: 50 cwt

Item	Unit	Cost	Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	<u>1955</u> 29 acres	<u>1953</u> acres
<b>Overhead:</b>							
Real estate taxes	-	-	-	6.50	-	195.00 <sup>a</sup> /	-
Office	-	-	-	1.95	-	56.50 <sup>a</sup> /	-
Improvements	-	-	-	2.17	-	62.79 <sup>a</sup> /	-
Power	-	-	-	11.16	-	323.64	-
Equipment	-	-	-	3.55	-	102.95	-
Irrigation water	-	-	-	12.26	-	355.54	-
Total overhead	-	-	-	37.59	-	1096.42	-
<b>Operating:</b>							
<b>Power:</b>							
Tractor W-1	.603	-	2.90 Hr.	1.75	-	50.75	-
Tractor W-2	.838	-	2.68 Hr.	2.25	-	65.25	-
Pickup	.035	-	91.0 Mi.	3.18	-	92.22	-
<b>Equipment:</b>							
4' ditcher	.235	-	.20 Hr.	.05	-	1.45	-
2 way/2-16" plow	2.084	-	.90 Hr.	1.88	-	54.52	-
6'9" offset disk	.944	-	.82 Hr.	.77	-	22.33	-
2 row lister planter	.533	-	1.06 Hr.	.56	-	16.24	-
2 row cultivator	.271	-	2.40 Hr.	.65	-	18.85	-
4' scraper (rent)	.50	-	.20 Hr.	.10	-	2.90	-
<b>Materials:</b>							
Irrigation water	.468	-	42.0 ac."	19.66	-	570.14	-
Seed	.26	-	10 lbs	2.60	-	75.40	-
<b>Labor:</b>							
Drivers	1.00	-	7.85 Hr.	7.85	-	227.65	-
Irrigator	.90	-	21.00 Hr.	18.90	-	548.10	-
General	.90	-	.56 Hr.	.50	-	14.50	-
Soc. Sec. & Comp. Insur.	-	-	-	1.58	-	45.82	-
<b>Contracts:</b>							
Fertilizer (NH <sub>3</sub> )	-	-	120 lbs	14.35	-	416.15	-
Pick	-	-	-	10.00	-	290.00	-
Shell	.125	-	50 cwt	6.25	-	181.25	-
Haul	.10	-	50 cwt	5.00	-	145.00	-
Dry	.175	-	50 cwt	8.75	-	253.75	-
Storage	.144	-	50 cwt	7.20	-	208.80	-
Insurance (\$1.50 per \$100.00 of value)	-	-	50 cwt	2.03	-	58.73	-
Interest on operating capital	-	-	-	2.90	-	83.98	-
Total operating	-	-	-	118.76	-	3443.78	-
Total Cost	-	-	-	156.35	-	4540.20	-

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.

PER CENT		PER CENT		PER CENT	
100	100	100	100	100	100
90	90	90	90	90	90
80	80	80	80	80	80
70	70	70	70	70	70
60	60	60	60	60	60
50	50	50	50	50	50
40	40	40	40	40	40
30	30	30	30	30	30
20	20	20	20	20	20
10	10	10	10	10	10
0	0	0	0	0	0

Due to adjustment for non-union losses.  
Total does not equal working hours multiplied by rate.



Table 20. Inputs and Costs for Producing Cotton on 80-2  
 1955 Yield: 2.5 Bales      1953 Yield: 2.1 Bales

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 33 acres	1953 60 acres
I	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	221.00a/	403.00a/
Office				1.95	1.95	64.28a/	116.88a/
Improvements				2.17	2.17	71.45a/	129.90a/
Power				21.25	17.30	701.25	1,038.00
Equipment				16.37	9.99	540.21	599.40
Irrigation water				12.26	12.13	404.58	727.80
Total overhead				60.50	50.04	2002.77	3,014.98
<b>Operating:</b>							
<b>Power:</b>							
Tractor W-1	.603	.620	5.45 hr	3.29	3.38	108.57	202.80
Tractor W-2	.838	.867	4.89 hr	4.10	4.24	135.30	254.40
Pickup	1955 .035		182.0 mi	6.37		210.21	
	1953 .035		146.0 mi		5.11		306.60
<b>Equipment:</b>							
4' ditcher	.235	.205	.30 hr	.07	.06	2.31	3.60
8' chisel	1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk	.944	.825	1.23 h4	1.16	1.01	38.28	60.60
12' spiketooth	.120	.082	.22 hr	.03	.02	.99	1.20
10' cultipacker	3.646	2.006	.27 hr	.98	.54	32.34	32.40
2 row lister planter	.533	.550	1.06 hr	.56	.58	18.48	34.80
2 row cultivator	.271	.215	4.96 hr	1.34	1.07	44.22	64.20
5 bale cotton trailer	.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)	.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)	1.00	1.00	.50 hr	.50	.50	16.50	30.00
<b>Materials:</b>							
Irrigation water	1955 .468		42.0 ac"	19.66		648.78	
	1953 .481		39.0 ac"		18.76		1,125.60
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	68.31	124.20
<b>Labor:</b>							
Drivers	1955 1.00		15.59 hr	16.14		532.62	
	1953 1.00		15.29 hr		15.29		917.40
Irrigator	1955 .90		21.00 hr	18.90		623.70	
	1953 .90		19.50 hr		17.55		1,053.00
General	.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.				2.06	1.93	67.98	115.80
<b>Contracts:</b>							
Fertilize (NH <sub>3</sub> )	1955		130 lbs	15.40		508.20	
(NH <sub>3</sub> )	1953		115 lbs		13.58		814.80
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.10	8.10	267.30	486.00
Hand thin				5.00	5.00	165.00	300.00
Hand weed				5.00	5.00	165.00	300.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg)			10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine	1955 24.50		2.5 bale	61.25		2021.25	
	1953 24.50		2.1 bale		51.45		3,087.00
Gin	1955 14.70		2.5 bale	36.75		1212.75	
	1953 14.70		2.1 bale		30.87		1,852.20
Insur. & storage	1955 1.19		2.5 bale	2.98		98.34	
	1953 1.19		2.1 bale		2.50		150.00
Interest on operating capital				2.83	2.61	93.31	156.54
Total operating				222.49	197.79	7342.09	11,867.34
Total cost				282.99	247.83	9344.86	14,882.32

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 21. Inputs and Costs for Producing Potatoes on 80-2  
 1955 Yield: 290 cwt      1953 Yield: 290 cwt

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 15 acres	1953 17 acres
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	104.00a/	117.00a/
Office				1.95	1.95	29.22a/	33.12a/
Improvements				2.17	2.17	32.48a/	36.82a/
Power				11.64	9.50	174.60	161.50
Equipment				8.86	10.42	132.90	177.14
Irrigation water				10.51	11.20	157.65	190.40
Total overhead				41.63	41.74	630.85	715.98
<b>Operating:</b>							
Power:							
Tractor W-1	.603	.620	2.17 Hr.	1.31	1.34	19.65	22.78
Tractor W-2	.838	.867	3.65 Hr.	3.06	3.16	45.90	53.72
Pickup 1955	.035		91.00 Mi.	3.18		47.70	
1953		.035	73.00 Mi.		2.56		43.52
<b>Equipment:</b>							
4' ditcher	.235	.205	.10 Hr.	.02	.02	.30	.34
2 way/2-16" plow	2.084	5.392	.90 Hr.	1.88	4.85	28.20	82.45
6'9" offset disk	.944	.825	1.27 Hr.	1.20	1.05	18.00	17.85
8' spiketooth	.080	.055	.45 Hr.	.04	.02	.60	.34
12' spiketooth	.120	.082	.22 Hr.	.03	.02	.45	.34
2 row cultivator	.271	.215	1.65 Hr.	.45	.35	6.75	5.95
2 row potato planter	3.646	3.217	1.28 Hr.	4.67	4.12	70.05	70.04
6' steel roller	2.222	1.961	.30 Hr.	.67	.59	10.05	10.03
4' scraper (rent)	.50	.50	.10 Hr.	.05	.05	.75	.85
<b>Materials:</b>							
Irrigation water	.468	.481	36.0 ac."	16.85	17.32	252.75	294.44
Seed (cut & dipped)	6.30	6.30	16 cwt	100.80	100.80	1512.00	1713.60
Fertilizer (17-7-0)			800 lbs	30.00	30.00	450.00	510.00
<b>Labor:</b>							
Drivers 1955	1.00		8.09 Hr.	8.09		121.35	
1953		1.00	7.64 Hr.		7.64		129.88
Irrigator	.90	.90	18.00 Hr.	16.20	16.20	243.00	275.40
General	.90	.90	1.28 Hr.	1.15	1.15	17.25	19.55
Soc. Sec. & Comp. Insur.				1.48	1.45	22.13	24.64
<b>Contracts:</b>							
Dust (5% DDT-50% sulfur)			30 lbs	4.05	4.05	60.75	68.85
Rotobeat				3.00	3.00	45.00	51.00
Dig				12.00	12.00	180.00	204.00
Pick	.16	.16	360 cwt	57.60	57.60	864.00	979.20
Haul	.075	.075	360 cwt	27.00	27.00	405.00	459.00
Shed cost	.55	.55	290 cwt	159.50	159.50	2392.50	2711.50
Int. on operating capital				5.07	5.13	76.06	87.14
Total operating				459.35	460.97	6890.19	7836.41
Total Cost				500.98	502.71	7521.04	8552.39

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.







Table 22. Annual Tractor and Equipment Hours, 1955 and 1953; 80-3 Farms in Upper San Joaquin Valley

Item	Cotton			Barley			Milo		All crop total	
	per acre	1955 total (33 acres)	1953 total (60 acres)	per acre	1955 total (30 acres)	1953 total (17 acres)	per acre	1955 total (14 acres)	1955	1953
W-1	5.45	179.85	327.00	.44	13.20	7.48	2.90	40.60	233.65	334.48
W-2	4.89	161.37	293.40	1.12	33.60	19.04	2.23	31.22	226.19	312.44
Pickup									10,000 miles	
4' ditcher	.30	9.90	18.00				.20	2.80	12.70	18.00
8' chisel	1.50	49.50	90.00						49.50	90.00
6'9" offset	1.23	40.59	73.80	.90	27.00	15.30	1.27	17.78	85.37	89.10
8' spiketooth harrow				.90	27.00	15.30				
12' spiketooth harrow	.22	7.26	13.20	.22	6.60	3.74			31.86 <sup>a</sup>	27.14 <sup>a</sup>
10' cultipacker	.27	8.91	16.20				.45	6.30	15.21	16.20
2 row lister planter	1.06	34.98	63.60				1.06	14.84	49.82	63.60
2 row cultivator	4.96	163.68	297.60				2.40	33.60	197.28	297.60
Cotton trailer-5 bale	1.50	49.50	90.00						49.50	90.00

<sup>a</sup>/ Total annual hours for 12' spiketooth harrow is 2/3 of 8' spiketooth harrow hours plus 12' spiketooth harrow hours.



Table 23. Irrigation Water Use, 1955 and 1953, for 80-3 Farms in Upper San Joaquin Valley

Year and period	Cotton		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(33 acres)		(30 acres)		(14 acres)		
1/1 - 4/30	6.0	198	14.4	432	-	-	630
5/1 - 6/30	8.0	264	-	-	6.0	84	348
7/1 - 8/31	23.5	775.5	-	-	17.0	238	1013.5
9/1 - 12/31	4.5	148.5	-	-	4.0	56	204.5
Seasonal per acre	42.00	-	14.40	-	27.00	-	-
Seasonal per farm	-	1386	-	432	-	378	2196
<u>1953</u>	(60 acres)		(17 acres)		(-----)		
1/1 - 4/30	6.0	360	14.4	244.8	-	-	604.8
5/1 - 6/30	8.0	480	-	-	-	-	480
7/1 - 8/31	21.0	1260	-	-	-	-	1260
9/1 - 12/31	4.0	240	-	-	-	-	240
Seasonal per acre	39.00	-	14.40	-	-	-	-
Seasonal per farm	-	2340	-	244.8	-	-	2584.8





Table 24. Inputs and Costs for Producing Barley on 80-3

1955 Yield: 25 cwt      1953 Yield: 21 cwt

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955	1953
						30 acres	17 acres
Overhead:							
Real estate taxes				6.50	6.50	201.50a/	117.00a/
Office				1.95	1.95	58.44a/	33.12a/
Improvements				2.17	2.17	64.95a/	36.82a/
Power				6.62	5.09	198.60	86.53
Equipment				.94	.93	28.20	15.81
Irrigation water				6.00	5.11	180.00	86.87
Total overhead				24.18	21.75	731.69	376.15
Operating:							
Power:							
Tractor W-1	.657	.579	.44 Hrs	.29	.25	8.70	4.25
Tractor W-2	.910	.824	1.12 Hrs	1.02	.92	30.60	15.64
Pickup 1955	.035		91.0 Mi	3.18		95.40	
1953		.035	72.0 Mi		2.56		43.52
Equipment:							
6'9" offset disk	.923	.809	.90 Hrs	.83	.73	24.90	12.41
8' spiketooth	.037	.044	.90 Hrs	.03	.04	.90	.68
12' spiketooth	.056	.066	.22 Hrs	.01	.01	.30	.17
Border disk (rent)	.50	.50	.22 Hrs	.11	.11	3.30	1.87
Broadcaster (rent)	.25	.25	.22 Hrs	.06	.06	1.80	1.02
Materials:							
Irrigation water	.551	.512	14.4 ac.in.	7.93	7.37	237.90	125.29
Seed	.04	.04	80 lbs	3.20	3.20	96.00	54.40
Labor:							
Drivers 1955	1.00		3.83 Hrs	3.83		114.90	
1953		1.00	3.38 Hrs		3.38		57.46
Irrigator	.90	.90	7.20 Hrs	6.48	6.48	194.40	110.16
Soc.Sec.& Comp.Insur.				.60	.57	18.00	9.69
Contracts:							
Harvest				5.00	5.00	150.00	85.00
Haul 1955	.10		25 cwt	2.50		75.00	
1953		.10	21 cwt		2.10		35.70
Storage 1955	.144		25 cwt	3.60		108.00	
1953		.144	21 cwt		3.02		51.34
Insurance 1955				.81		24.30	
(\$1.50 per \$100 of value) 1953					.85		14.45
Interest on Operating capital				.92	.86	27.63	14.54
Total operating				40.40	37.51	1212.03	637.59
Total cost				64.58	59.26	1943.72	1013.74

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

[illegible]



Table 25. Inputs and Costs for Producing Cotton on 80-3  
 1955 Yield: 1.8 Bales 1953 Yield: 1.5 Bales

Item	Unit Cost		Units used per acre	Cost Per Acre		Total Cost	
	1955	1953		1955	1953	1955 33 acres	1953 60 acres
	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	221.00a/	403.00a/
Office				1.95	1.95	64.28a/	116.88a/
Improvements				2.17	2.17	71.45a/	129.90a/
Power				25.06	18.55	826.98	1,113.00
Equipment				16.37	10.14	540.21	608.40
Irrigation water				17.51	13.84	577.83	830.40
Total overhead				69.56	53.15	2301.75	3,201.58
<b>Operating:</b>							
<b>Power:</b>							
Tractor W-1	.657	.579	5.45 hr	3.58	3.16	118.14	189.60
Tractor W-2	.910	.824	4.89 hr	4.45	4.03	146.85	241.80
Pickup	1955 .035		182.0 mi	6.37		210.21	
	1953	.035	146.0 mi		5.11		306.60
<b>Equipment:</b>							
4' ditcher	.319	.225	.30 hr	.10	.07	3.30	4.20
8' chisel	1.060	.583	1.50 hr	1.59	.87	52.47	52.20
6'9" offset disk	.923	.884	1.23 hr	1.14	1.09	37.62	65.40
12' spiketooth	.056	.066	.22 hr	.01	.01	.33	.60
10' cultipacker	2.137	2.006	.27 hr	.58	.54	19.14	32.40
2 row lister planter	.702	.550	1.06 hr	.74	.58	24.42	34.80
2 row cultivator	.355	.235	4.96 hr	1.76	1.17	58.08	70.20
5 bale cotton trailer	1.970	.535	1.50 hr	1.46	.80	48.18	48.00
4' scraper (rent)	.50	.50	.30 hr	.15	.15	4.95	9.00
2 row stalk cutter (rent)	1.00	1.00	.50 hr	.50	.50	16.50	30.00
<b>Materials:</b>							
Irrigation water	1955 .551		42.0 ac"	23.14		763.62	
	1953	.512	39.0 ac"		19.97		1,198.20
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	68.31	124.20
<b>Labor:</b>							
Drivers	1955 1.00		16.22 hr	16.22		535.26	
	1953	1.00	15.34 hr		15.34		920.40
Irrigator	1955 .90		21.00 hr	18.90		623.70	
	1953	.90	19.50 hr		17.55		1,053.00
General	.90	.90	.56 hr	.50	.50	16.50	30.00
Soc. Sec. & Comp. Insur.				2.07	1.94	68.31	116.40
<b>Contracts:</b>							
Fertilize (NH <sub>3</sub> )	1955		130 lbs	15.40		508.20	
(NH <sub>3</sub> )	1953		115 lbs		13.58		814.80
Dust 2X(5% DDT-50% sulfur)			60 lbs	8.10	8.10	267.30	486.00
Hand thin				5.00	5.00	165.00	300.00
Hand weed				5.00	5.00	165.00	300.00
Defoliate (NaClO <sub>3</sub> w/Borate <sup>3</sup> or Mg)			10 lbs	4.25	4.25	140.25	255.00
Pick 2X - machine	1955 24.50		1.8 bale	44.10		1455.30	
	1953	24.50	1.5 bale		36.75		2,205.00
Gin	1955 14.70		1.8 bale	26.46		873.18	
	1953	14.70	1.5 bale		22.05		1,323.00
Insurance & storage	1955 1.19		1.8 bale	2.14		70.62	
	1953	1.19	1.5 bale		1.79		107.40
Interest on operating capital				2.90	2.61	95.64	156.82
Total operating				198.68	174.58	6556.38	10,475.02
Total cost				268.24	227.73	8858.13	13,676.60

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 26. Inputs and Costs for Producing Milo on 80-3

1955 Yield: 40 cwt

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 14 acres	1953 acres
<u>Overhead:</u>							
Real estate taxes				6.50		97.50a/	
Office				1.95		27.28a/	
Improvements				2.17		30.32a/	
Power				12.40		173.60	
Equipment				3.96		55.44	
Irrigation water				11.26		157.64	
Total overhead				38.24		541.78	
<u>Operating:</u>							
<u>Power:</u>							
Tractor W-1	.657		2.90 hrs	1.91		26.74	
Tractor W-2	.910		2.23 hrs	2.03		28.42	
Pickup	.035		91.0 mi	3.18		44.52	
<u>Equipment:</u>							
4' ditcher	.319		.20 hrs	.06		.84	
6'9" offset disk	.923		1.27 hrs	1.17		16.38	
10' cultipacker	2.137		.45 hrs	.96		13.44	
2 row lister planter	.702		1.06 hrs	.74		10.36	
2 row cultivator	.355		2.40 hrs	.85		11.90	
4' scraper (rent)	.50		.20 hrs	.10		1.40	
<u>Materials:</u>							
Irrigation water	.551		27.0 ac.in.	14.88		208.32	
Seed	.08		10 lbs	.80		11.20	
<u>Labor:</u>							
Drivers	1.00		7.42 hrs	7.42		103.88	
Irrigator	.90		13.50 hrs	12.15		170.10	
General	.90		.56 hrs	.50		7.00	
Soc. Sec. & comp. insur.				1.16		16.24	
<u>Contracts:</u>							
Harvest				6.00		84.00	
Haul	.10		40 cwt	4.00		56.00	
Storage	.144		40 cwt	5.76		80.64	
Insurance (\$1.50 per \$100 of value)			40 cwt	1.38		19.32	
Interest on operating capital				1.58		22.19	
Total operating				66.63		932.89	
Total cost				104.87		1474.67	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 27. Crops and Land Use on Typical 160 Acre Farms, 1953-1955; 160-1, Cotton-Alfalfa Seed-Barley, 160-2, Cotton-Potatoes-Milo, 160-3, Cotton-Alfalfa-Potatoes, in Upper San Joaquin Valley

Year	Cotton	Alfalfa Seed	Alfalfa	Potatoes	Milo	Field Corn	Barley	Idle or Fallow	Double Crop	Total Crop-land	Non Cultivated	Total Land
1	2	3	4	5	6	7	8	9	10	11	12	13
160-1												
1953	100	15	--	--	--	--	30	3	--	148	12	160
1954	66	25	--	--	--	--	43	14	--	148	12	160
1955	55	30	--	--	--	--	48	15	--	148	12	160
Changes												
1953 to 1954	-34	+10	--	--	--	--	+13	+11	--	--	--	--
1954 to 1955	-11	+ 5	--	--	--	--	+ 5	+ 1	--	--	--	--
1953 to 1955	-45	+15	--	--	--	--	+18	+12	--	--	--	--
160-2												
1953	100	--	--	35	10	--	--	3	--	148	12	160
1954	66	--	15	25	35	--	35	7	35	148	12	160
1955	55	--	20	28	40	--	40	5	40	148	12	160
Changes												
1953 to 1954	-34	--	+15	-10	+25	--	+35	+4	+35	--	--	--
1954 to 1955	-11	--	+ 5	+ 3	+ 5	--	+ 5	-2	+ 5	--	--	--
1953 to 1955	-45	--	+20	- 7	+30	--	+40	+2	+40	--	--	--
160-3												
1953	100	--	25	20	--	--	--	3	--	148	12	160
1954	66	--	35	15	--	27a/	--	5	--	148	12	160
1955	55	--	45	17	--	25	--	6	--	148	12	160
Changes												
1953 to 1954	-34	--	+10	- 5	--	+27	--	+2	--	--	--	--
1954 to 1955	-11	--	+10	+ 2	--	- 2	--	+1	--	--	--	--
1953 to 1955	-45	--	+20	- 3	--	+25	--	+3	--	--	--	--

a/ Sugar beets, an alternate for 15 acres in 1954.

2. *Other people who were in the room at the time*

NAME OF PERSON	AGE	SEX	RELATIONSHIP	EDUCATION	OCCUPATION	DATE OF BIRTH	DATE OF DEATH	PLACE OF BIRTH	PLACE OF DEATH	CAUSE OF DEATH	DATE OF BURIAL	PLACE OF BURIAL	DATE OF CREMATION	PLACE OF CREMATION	DATE OF INTERMENT	PLACE OF INTERMENT	DATE OF EXHUMATION	PLACE OF EXHUMATION	DATE OF REINTERMENT	PLACE OF REINTERMENT
JOHN DOE	45	M	HUSBAND	HIGH SCHOOL	TEACHER	1915	1985	NEW YORK	NEW YORK	HEART DISEASE	1985	NEW YORK	1985	NEW YORK	1985	NEW YORK	1985	NEW YORK	1985	NEW YORK
JANE DOE	42	F	WIFE	HIGH SCHOOL	SECRETARY	1918	1988	NEW YORK	NEW YORK	HEART DISEASE	1988	NEW YORK	1988	NEW YORK	1988	NEW YORK	1988	NEW YORK	1988	NEW YORK
JOHN DOE	15	M	SON	COLLEGE	ENGINEER	1935	1995	NEW YORK	NEW YORK	HEART DISEASE	1995	NEW YORK	1995	NEW YORK	1995	NEW YORK	1995	NEW YORK	1995	NEW YORK
JANE DOE	12	F	DAUGHTER	COLLEGE	NURSE	1938	1998	NEW YORK	NEW YORK	HEART DISEASE	1998	NEW YORK	1998	NEW YORK	1998	NEW YORK	1998	NEW YORK	1998	NEW YORK
JOHN DOE	10	M	SON	COLLEGE	DOCTOR	1940	2000	NEW YORK	NEW YORK	HEART DISEASE	2000	NEW YORK	2000	NEW YORK	2000	NEW YORK	2000	NEW YORK	2000	NEW YORK
JANE DOE	8	F	DAUGHTER	COLLEGE	TEACHER	1942	2002	NEW YORK	NEW YORK	HEART DISEASE	2002	NEW YORK	2002	NEW YORK	2002	NEW YORK	2002	NEW YORK	2002	NEW YORK
JOHN DOE	5	M	SON	COLLEGE	ENGINEER	1945	2005	NEW YORK	NEW YORK	HEART DISEASE	2005	NEW YORK	2005	NEW YORK	2005	NEW YORK	2005	NEW YORK	2005	NEW YORK
JANE DOE	3	F	DAUGHTER	COLLEGE	SECRETARY	1948	2008	NEW YORK	NEW YORK	HEART DISEASE	2008	NEW YORK	2008	NEW YORK	2008	NEW YORK	2008	NEW YORK	2008	NEW YORK
JOHN DOE	2	M	SON	COLLEGE	TEACHER	1950	2010	NEW YORK	NEW YORK	HEART DISEASE	2010	NEW YORK	2010	NEW YORK	2010	NEW YORK	2010	NEW YORK	2010	NEW YORK
JANE DOE	1	F	DAUGHTER	COLLEGE	NURSE	1952	2012	NEW YORK	NEW YORK	HEART DISEASE	2012	NEW YORK	2012	NEW YORK	2012	NEW YORK	2012	NEW YORK	2012	NEW YORK

NOTE: The above information was obtained from the records of the New York State Department of Health, Office of Vital Statistics, Bureau of Mortality and Health Statistics, New York City, New York.



Table 28. Physical Resources and Investment for Typical 160-Acre Farms  
(160-1, 160-2, 160-3) in Upper San Joaquin Valley, 1955 Prices <sup>a/</sup>

Item and Description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Land:						
Total farm	160 acres					
Cultivated land	158 acres					
Improvements:						
Shop, storage		1		\$ 2,000.00		\$ 1,000.00
Tractor & equipment shed		1		1,000.00		500.00
Fuel storage - gas	550 gal.	1		135.00		67.50
Fuel storage - diesel	350 gal.	1		110.00		55.00
Subtotal				3,245.00		1,622.50
Irrigation facilities:						
Pumping plant (40HP)	650 gpm	2	\$3200.00	6,400.00	\$1640.00	3,280.00
Well, casing (180' lift)	12" diam.	2x400'	6.50	5,200.00	3.25	2,600.00
Subtotal				11,600.00		5,880.00
Distribution system:						
Reservoir	4.0 ac. '	1		80.00		40.00
Pipe	12"	5280'	.80	4,224.00	.40	2,112.00
Stands	6'x36"	4	54.00	216.00	17.00	108.00
Vents	6'x8"	4	4.20	16.80	2.10	8.40
Valves, alfalfa	12"	140	18.56	2,598.40	9.28	1,299.20
Row pipe	2"	400	1.50	600.00	.75	300.00
Siphons	1 1/2"	200	1.27	254.00	.64	127.00
Subtotal				7,989.20		3,994.60
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-2	2	3000.00	6,000.00	2100.00	4,200.00
Subtotal				13,000.00		8,050.00
Transportation:						
Pickup	3/4 ton	1		2,300.00		1,380.00
Equipment:						
Ditcher	4'	1		135.00		67.50
Scraper	4'	1		140.00		70.00
Plow, 2 way	2-16"	1		550.00		275.00
Disk-offset	9'	1		750.00		375.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	2 row	1		350.00		175.00
Cultivator	4 row	1		1,000.00		500.00

(Continued on next page.)

1. The first part of the report is devoted to a description of the work done during the year.

2. The second part of the report is devoted to a description of the work done during the year.

3. The third part of the report is devoted to a description of the work done during the year.

4. The fourth part of the report is devoted to a description of the work done during the year.

5. The fifth part of the report is devoted to a description of the work done during the year.

6. The sixth part of the report is devoted to a description of the work done during the year.

7. The seventh part of the report is devoted to a description of the work done during the year.

8. The eighth part of the report is devoted to a description of the work done during the year.

9. The ninth part of the report is devoted to a description of the work done during the year.

10. The tenth part of the report is devoted to a description of the work done during the year.

11. The eleventh part of the report is devoted to a description of the work done during the year.

12. The twelfth part of the report is devoted to a description of the work done during the year.

13. The thirteenth part of the report is devoted to a description of the work done during the year.

Table 28 continued.

Item and Description 1	Size or Capacity 2	Amount 3	New Cost		Investment	
			Per Unit 4	Total 5	Per Unit 6	Total 7
Equipment, continued:						
Cotton picker	1 row	1		\$ 8,700.00		\$ 5,220.00
Cotton Trailer	5 bale	4	\$ 400.00	1,600.00	\$ 220.00	880.00
Stalk cutter	2 row	1		325.00		162.50
Additional equipment:						
160-2 & 160-3 only						
Power mower <u>b/</u>	7'	1		350.00		175.00
Side delivery rake <u>b/</u>	8'	1		520.00		260.00
Potato planter				700.00		350.00
Steel roller				200.00		100.00
Equipment 160-1				14,570.00		8,235.00
Equipment 160-2	1955			16,340.00		9,120.00
	1953			15,440.00		8,670.00
Equipment 160-3				16,340.00		9,120.00
Total 160-1				\$52,704.20		\$29,162.10
Total 160-2	1955			\$54,474.20		\$30,047.10
	1953			\$53,574.20		\$29,597.10
Total 160-3				\$54,474.20		\$30,047.10

a/ The designations 160-1, 160-2, 160-3 refer to three variations found in the 160 acre size group.

b/ Purchased after 1953 for 160-2.



1908 854

6. 11. 19

• *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy in the form of ATP and NADPH.

*[Faint handwritten text at the bottom of the page]*

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Table 29. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
2/1 - 3/15	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	9' offset disk	28	.32	.32	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	9' offset w/12' spike	26	.35	.35	
	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - contract							12.5# 2% parathion

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UNIVERSITY OF CALIFORNIA  
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1-1 IS, SUTHERLAND HOLLOW  
I WAS PROSECUTOR (LOAN)  
I AM JUSTICE, AND I HAVE  
I AM JUSTICE, AND I HAVE



Table 30. Calendar of Operations &amp; Physical Inputs Per Acre for Producing Alfalfa on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
4/5 - 4/15	Irrigation	1						5.6 ac. in.
	Cut 1st*	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
5/5 - 5/15	Irrigate 2X	1						8 ac. in.
	Cut 2nd*	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
6/5 - 6/15	Irrigate 2X	1						8 ac. in.
	Cut 3rd	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
7/5 - 7/15	Irrigate 2X	1						8 ac. in.
	Cut 4th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
8/5 - 8/15	Irrigate 2X	1						8 ac. in.
	Cut 5th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
9/5 - 9/15	Irrigate 2X	1						8 ac. in.
	Cut 6th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
10/5 - 10/15	Irrigate 2X	1						8 ac. in.
	Cut 7th	1	W-2	7' power mower	29	.31	.31	
	Rake	1	W-2	8' S. D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate	1						4 ac. in.

\* No cutting for 1st year of stand



Table 31. Calendar of Operations & Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed for 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Landplane 2X - contract							
	Furrow out	1	W-2	4 row lister planter	30	.30	.30	
	Make head ditches	1	T-5D	4' ditcher		.05	.05	
	Preirrigate	1						
	Fill in ditches	1	W-2	4' scraper		.05	.05	8 ac. in.
	Harrow beds	1	W-2	12' spiketooth harrow	45	.20	.20	
2/1 - 2/20	Plant	2	W-2	4 row lister planter	29	.62	.31	1½# seed
3/1 - 3/20	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - contract							12.5 # 2% parathion





Table 32. Calendar of Operations & Physical Inputs Per Acre for Producing Alfalfa Seed on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	300# super phosphate 3 colonies 10 ac. in.
5/1 - 5/20	Fertilize - contract							
	Bees - contract							
4/20 - 5/10	Irrigate	1						
5/10 - 5/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	10 ac. in.
6/1 - 6/10	Irrigate	1						
	Dust 2X - contract							10 ac. in.
6/10 - 6/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	60# 5% DDT-75% S
6/10 - 6/20	Weed - contract							
7/1 - 7/10	Irrigate							
7/10 - 7/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	10 ac. in.
8/16 - 8/26	Defoliate - contract							1 qt. sinox in 10 gal. Diesel oil
8/20 - 8/30	Harvest - contract							
9/1 - 9/10	Disk	1	W-2	9' offset disk	27	.33	.33	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth(rented)	45	.40	.40	





Table 33. Calendar of Operations & Physical Inputs Per Acre Producing Barley on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (Harrow on 2nd time)	1	T-5D	9' offset disk w/12' spike	26	.70	.70	80# seed  14.4 ac. in.
12/20 - 1/20	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	
12/20 - 1/20	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
12/22 - 1/22	Border up	1	W-2	border disk (rented)	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							



Table 34. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Man- hours	Physical requirements	
		Men	Power	Equipment			Tractor hours	Material
3/20 - 4/15	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Furrow out	1	W-2	4 row lister planter	28	.32	.32	
	Make head ditches*	1	W-2	4' ditcher		.20	.20	
	Preirrigate							
	Fill in ditches*	1	W-2	4' scraper		.20	.20	6 ac. in.
	Plant	2	W-2	4 row lister planter	29	.62	.31	10# seed
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Irrigate							4 ac. in.
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
	Fertilize - contract							120# NH <sub>3</sub> (84%)
9/20 - 10/15	Irrigate 2X							8 ac. in.
	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
	Irrigate 6X	1						
	Pick & haul - contract							24 ac. in.
	Shell - contract							

\* occurs 4X - man-hours and tractor-hours are total for season



1. The first part of the report is a general introduction to the project. It describes the purpose of the study, the objectives, and the scope of the work.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the data sources, the sampling method, and the statistical techniques used to analyze the data.

3. The third part of the report is a presentation of the results of the study. It includes a summary of the findings, a discussion of the implications of the results, and a comparison of the results with previous research.

4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the main findings of the study and provides recommendations for future research. The references list the sources of information used in the study.

5. The fifth part of the report is a list of appendices. These include any additional information that is relevant to the study but is too large to include in the main body of the report.

6. The sixth part of the report is a list of abbreviations and a list of symbols. These are used to define the terms and symbols used in the report.

Table 35. Calendar of Operations and Physical Inputs Per Acre for Producing Cotton on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material 1953	Material 1955
4/1 - 4/15	Cut Stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	9' offset disk	28	.64	.64		
	Plow	1	T-5D	2 way/2-16"	12	.75	.75		
	Furrow Out	1	W-2	4 row lister-planter	30	.30	.30		
	Make Head Ditches*	1	T-5D	4' ditches		.25	.25		
	Preirrigate	1						5 ac.in.	6 ac.in.
	Fill in ditches*	1	W-2	4' scraper		.25	.25		
	Harrow beds	1	W-2	12' Spiketooth harrow	45	.20	.20		
	Plant	2	W-2	4 row lister planter	29	.62	.31	18# acid delint seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
4/25 - 5/5	Cultivate (1)	1	W-2	4 row cultivator	22	.41	.41		
	Hand thin - contract								
	Cultivate (2)	1	W-2	4 row cultivator	24	.38	.38		
	Fertilize - contract							100# NH <sub>3</sub>	120# NH <sub>3</sub>
5/20 - 6/10	Cultivate (3)	1	W-2	4 row cultivator	28	.32	.32		
	Irrigate (1)	1						3 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-2	4 row cultivator	28	.32	.32		
	Irrigate (2)	1						3 ac.in.	4 ac.in.
6/15 - 8/15	Cultivate (5)	1	W-2	4 row cultivator	28	.32	.32		
	Dust 2X - contract							60# 5% DDT - 50% S	
	Irrigate (3)	1						4 ac.in.	4 ac.in.
7/20 - 7/30	Cultivate & lay by (6)	1	W-2	4 row cultivator	28	.32	.32		
8/5 - 9/10	Irrigate 6 X (4-9)	1						24 ac.in.	24 ac.in.
9/10 - 9/30	Defoliate - contract							10# of NaClO <sub>3</sub> w/Borate <sup>3</sup> or Mg.	
10/1 - on	Pick 1st	2	W-2	1 row cotton harvester	6	3.00	1.50		
11/15 - on	Pick 2nd	2	W-2	1 row cotton harvester	7	2.56	1.28		
10/1 - on	Haul to gin	1	Pick- up	5 bale cotton trailer	6	1.50	1.50		
	Gin - contract								

\* occurs 5X - Man-hours and tractor-hours are total for season





Table 36. Calendar of Operations & Physical Inputs Per Acre for Producing Milo on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
6/15 - 7/15	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	6 ac. in.
	Furrow out	1	W-2	4 row lister planter	30	.30	.30	
	Make head ditches*	1	T-5D	4' ditcher		.20	.20	
	Preirrigate	1						
	Fill in ditches*	1	W-2	4' scraper		.20	.20	
	Disk w/cultipacker attached	1	T-5D	9' offset disk w/12' cultipacker	26	.35	.35	10# seed 5 ac. in.
	Plant	2	W-2	4 row lister planter	29	.62	.31	
	Irrigate	1						
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
7/15 - 8/15	Irrigate	1						4 ac. in.
7/25 - 9/5	Cultivate	1	W-2	4 row cultivator	24	.38	.38	12 ac. in.
7/25 - 9/5	Irrigate 3X	1						
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

\* Occurs 4X - man-hours and tractor-hours are total for season

1991-1992

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1990

1. *Chrysomelidae*

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*(continued)*

2000

1. *Chlorophyll a*

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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Table 37. Calendar of Operations & Physical Inputs Per Acre for Producing Potatoes on 160 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1/5 - 2/15	Disk 2X	1	T-5D	9' offset disk	28	.64	.64	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X with harrow	1	T-5D	9' offset disk & 12' spiketooth harrow	26	.70	.70	
	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	16 cwt 800# 17-7-0
	Harrow beds	1	W-2	12' harrow	45	.20	.20	
2/20 - 2/30	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	
	Make head ditches*	1	T-5D	4' ditcher		.10	.10	
	Irrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper		.10	.10	
3/20 - 6/1	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	
5/5 - 6/5	Irrigate continuous	1						30 ac. in.
	Dust 1X - contract							30# of 5% DDT 50% S
5/20 - 6/20	Roll	1	W-2	6' steel roller	30	.30	.30	
	Rotobeat - contract							
	Dig - contract							
	Pick - contract							
	Haul - contract							

\* occurs 2X - man-hours & tractor-hours are total for season



1. GENERAL INFORMATION - DESCRIPTION OF THE PROJECT AND SCOPE OF THE STUDY

<p>1.1. <u>OBJECTIVE</u></p> <p>1.2. <u>SCOPE</u></p>	<p>1.3. <u>DEFINITION OF TERMS</u></p> <p>1.4. <u>ACRONYMS</u></p>	<p>1.5. <u>RESEARCH METHODOLOGY</u></p> <p>1.6. <u>DATA COLLECTION</u></p>	<p>1.7. <u>ANALYSIS</u></p> <p>1.8. <u>CONCLUSION</u></p>
<p>2.1. <u>INTRODUCTION</u></p> <p>2.2. <u>BACKGROUND</u></p>	<p>2.3. <u>STATEMENT OF THE PROBLEM</u></p> <p>2.4. <u>JUSTIFICATION</u></p>	<p>2.5. <u>REVIEW OF LITERATURE</u></p> <p>2.6. <u>THEORETICAL FRAMEWORK</u></p>	<p>2.7. <u>RESEARCH DESIGN</u></p> <p>2.8. <u>SAMPLE SIZE</u></p>
<p>3.1. <u>DATA COLLECTION</u></p> <p>3.2. <u>DATA ANALYSIS</u></p>	<p>3.3. <u>RESULTS</u></p> <p>3.4. <u>DISCUSSION</u></p>	<p>3.5. <u>CONCLUSION</u></p> <p>3.6. <u>RECOMMENDATIONS</u></p>	<p>3.7. <u>REFERENCES</u></p> <p>3.8. <u>APPENDICES</u></p>
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Table 38. Annual Tractor and Equipment Hours, 1955 and 1953; 160-1 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa seed			Barley			All crop total	
	per acre	1955 total (55 acres)	1953 total (100 acres)	per acre	1955 total (30 acres)	1953 total (15 acres)	per acre	1955 total (48 acres)	1953 total (30 acres)		
										1955	1953
T-5D	1.64	90.20	164.00	.48	14.40	7.20	.70	33.60	21.00	138.20	192.20
W-2	7.01	385.55	701.00	2.88	86.40	43.20	.66	31.68	19.80	503.63	764.00
Pickup										(10,000 miles)	
4' ditcher	.25	13.75	25.00	.02	.60	.30				14.35	25.30
4' scraper	.25	13.75	25.00	.02	.60	.30				14.35	25.30
2w/2-16" plow	.75	41.25	75.00	.25	7.50	3.75				48.75	78.75
9' offset disk	.64	35.20	64.00	.54	16.20	8.10	.70	33.60	21.00	85.00	93.10
12' spiketooth harrow	.20	11.00	20.00	.13	3.90	1.95	.57	27.36	17.10	42.26	39.05
12' cultipacker	.20	11.00	20.00							11.00	20.00
4 row lister planter	.61	33.55	61.00	.20	6.00	3.00				39.55	64.00
2 row culti-vator	1.00	55.00	100.00							55.00	100.00
4 row culti-vator	1.57	86.35	157.00	1.80	54.00	27.00				140.35	184.00
1 row cotton picker	5.56	305.80	556.00							305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00							82.50	150.00
2 row stalk cutter	.50	27.50	50.00							27.50	50.00





Table 39. Irrigation Water Use, 1955 and 1953; for 160-1 Farms in  
Upper San Joaquin Valley

Year and period	Cotton		Alfalfa Seed		Barley		All crop total
	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(55 acres)		(30 acres)		(48 acres)		
1/1 - 4/30	6.0	330	10.0	300	14.4	691.2	1321.2
5/1 - 6/30	8.0	440	10.0	300	-	-	740.0
7/1 - 8/31	24.0	1320	10.0	300	-	-	1620.0
9/1 - 12/31	4.0	220	-	-	-	-	220.0
Seasonal per acre	42.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	2310	-	900	-	691.2	3901.2
<u>1953</u>	(100 acres)		(15 acres)		(30 acres)		
1/1 - 4/30	5.0	500	10.0	150	14.4	432	1082
5/1 - 6/30	6.0	600	10.0	150	-	-	750
7/1 - 8/31	24.0	2400	10.0	150	-	-	2550
9/1 - 12/31	4.0	400	-	-	-	-	400
Seasonal per acre	39.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	3900	-	450	-	432	4782



Table 40. Inputs and Costs for Producing Alfalfa Seed on 160-1  
 1955 Yield: 550 lbs. 1953 Yield: 550 lbs.

Item 1	Unit Cost		Units used per Acre 4	Cost per Acre		Total Cost	
	1955 2	1953 3		1955 5	1953 6	1955 30 acres 7	1953 15 acres 8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	253.50 <sup>a</sup> /	130.00 <sup>a</sup> /
Office				1.52	1.52	51.69 <sup>a</sup> /	24.33 <sup>a</sup> /
Improvements				2.47	2.47	83.99 <sup>a</sup> /	39.53 <sup>a</sup> /
Power				6.75	4.73	202.50	70.95
Equipment				1.99	1.58	59.70	23.70
Irrigation water				11.22	9.15	336.60	137.25
1/3 cost to establish stand				15.05	12.86	451.42	192.96
Total overhead				45.50	38.81	1439.40	618.72
<b>Operating:</b>							
Power:							
Tractor W-2	.878	.849	2.53 hr	2.22	2.15	66.60	32.25
Pickup	.042		53.20 mi	2.23		66.90	
		.042	40.80 mi		1.71		25.65
<b>Equipment:</b>							
9' offset disk	1.323	1.209	.33 hr	.44	.40	13.20	6.00
4 row cultivator	1.425	1.087	1.80 hr	2.56	1.96	76.80	29.40
12' springtooth (rent)	.50	.50	.40 hr	.20	.20	6.00	3.00
<b>Materials:</b>							
Irrigation water	.585	.529	30.0 ac"	17.55	15.87	526.50	238.05
<b>Labor:</b>							
Drivers	1.00		3.86 hr	3.86		115.80	
		1.00	3.55 hr		3.55		53.25
Irrigators	.90	.90	12.98 hr	11.68	11.68	350.40	175.20
Soc. Sec. & Comp. Insur.				.90	.88	27.04	13.25
<b>Contracts:</b>							
Fertilize (single super phosphate)			300 lbs	7.10	7.10	213.00	106.00
Bees (colonies)	5.00	5.00	3	15.00	15.00	450.00	225.00
Dust (5% DDT-75% sulfur)			60 lbs	7.95	7.95	238.50	119.25
Weed				15.00	15.00	450.00	225.00
Defoliate (sinox)			1 qt	5.40	5.40	162.00	81.00
Harvest	.03	.03	550 lbs	16.50	16.50	495.00	247.50
Certification fees (sacks, cleaning, inspection)				10.12	10.12	303.60	151.80
Box rental				1.00	1.00	30.00	15.00
Interest on operating capital				3.19	3.10	95.58	46.57
Total operating				122.90	119.57	3686.92	1793.17
Total cost				168.40	158.38	5126.32	2411.89

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 41. Cost of Inputs to Establish an Alfalfa Seed Stand on 160-1

Item	Unit Cost		Units used per Acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 30 acres	1953 15 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	8.172	6.017	1.44 hr	11.77	8.66	353.10	129.90
Tractor W-2	2.514	1.927	1.06 hr	2.66	2.04	79.80	30.60
Equipment:							
4' ditcher	1.476	.836	.05 hr	.07	.04	2.10	.60
4' scraper	1.528	.867	.05 hr	.08	.04	2.40	.60
2 way/2-16" plow	3.121	1.932	.75 hr	2.34	1.45	70.20	21.75
9' offset disk	2.441	2.229	.64 hr	1.56	1.43	46.80	21.45
12' spiketooth	.241	.261	.40 hr	.10	.10	3.00	1.50
4 row lister planter	3.152	1.948	.61 hr	1.92	1.19	57.60	17.85
Materials:							
Irrigation water	.959	.834	8 Ac in	7.67	6.67	230.10	100.05
Seed	.40	.40	1.5 lbs	.60	.60	18.00	9.00
Labor:							
Drivers	1.00	1.00	2.50 hr	2.50	2.50	75.00	37.50
Irrigators	.90	.90	3.46 hr	3.11	3.11	93.30	46.65
General	.90	.90	.31 hr	.28	.28	8.40	4.20
Soc. Sec. & Comp. Insur.				.34	.34	10.25	5.12
Contracts:							
Landplane 2X				8.00	8.00	240.00	120.00
Dust (2% parathion)			12.5 lbs	2.14	2.14	64.20	32.10
Total cost				45.14	38.59	1354.25	578.87
Amount charged off annually <sup>a/</sup>				15.05	12.86	451.42	192.96

<sup>a/</sup> Total cost to establish stand is depreciated over three years.





Table 42. Inputs and Costs for Producing Barley on 160-1  
 1955 Yield: 25 cwt.      1953 Yield: 21 cwt.

Item	Unit Cost		Units used per Acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 48 acres	1953 30 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	370.50a/	227.50a/
Office				1.52	1.52	79.05a/	47.13a/
Improvements				2.47	2.47	128.46a/	76.58a/
Power				7.92	5.75	380.16	172.50
Equipment				.89	.83	42.72	24.90
Irrigation water				5.39	4.39	258.72	131.70
Total overhead				24.69	21.46	1259.61	680.31
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	2.128	1.671	.70 hr	1.49	1.17	71.52	35.10
Tractor W-2	.878	.849	.66 hr	.58	.56	27.84	16.80
Pickup 1955	.042		53.20 mi	2.23		107.04	
1953		.042	40.83 mi		1.71		51.30
<b>Equipment:</b>							
9' offset disk	1.323	1.209	.70 hr	.94	.85	44.64	25.50
12' spiketooth	.042	.046	.57 hr	.02	.03	.96	.90
Border disk (rent)	.50	.50	.22 hr	.11	.11	5.28	3.30
Broadcaster (rent)	.25	.25	.22 hr	.06	.06	2.88	1.80
<b>Materials:</b>							
Irrigation water	.585	.529	14.4 ac"	8.42	7.62	404.16	228.60
Seed	.04	.04	80 lbs	3.20	3.20	153.60	96.00
<b>Labor:</b>							
Drivers 1955	1.00		2.69 hr	2.69		129.12	
1953		1.00	2.38 hr		2.38		71.40
Irrigators	.90	.90	6.23 hr	5.61	5.61	269.28	168.30
Soc. Sec. & Comp. Insur.				.48	.46	23.11	13.90
<b>Contracts:</b>							
Harvest				5.00	5.00	240.00	150.00
Haul 1955	.10		25 cwt	2.50		120.00	
1953		.10	21 cwt		2.10		75.00
Storage 1955	.144		25 cwt	3.60		172.80	
1953		.144	21 cwt		3.02		90.60
Insurance (\$1.50 per \$100.00 of value)				.81	.85	38.70	25.52
Interest on operating capital				.96	.90	46.25	27.02
Total operating				38.69	35.63	1857.18	1081.04
Total cost				63.38	57.09	3116.79	1761.35

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 43. Inputs and Costs for Producing Cotton on 160-1  
 1955 Yield: 2.1 Bales 1953 Yield: 1.75 Bales

Item	Unit Cost		Units used per acre	Cost Per Acre		Total Cost	
	1955	1953		1955	1953	1955 55 acres	1953 100 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	416.00a/	682.50a/
Office				1.52	1.52	94.26a/	153.54a/
Improvements				2.47	2.47	153.17a/	249.51a/
Power				26.59	18.69	1,462.45	1,869.00
Equipment				43.83	24.82	2,410.65	2,482.00
Irrigation water				15.71	11.90	864.05	1,190.00
Total overhead				96.62	65.90	5,400.58	6,626.55
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	2.128	1.671	1.64 hr	3.49	2.74	191.95	274.00
Tractor W-2	.878	.849	7.01 hr	6.15	5.95	338.25	595.00
Pickup 1955	.042		106.40 mi	4.47		245.85	
1953		.042	81.63 mi		3.43		343.00
<b>Equipment:</b>							
4' ditcher	.282	.160	.25 hr	.07	.04	3.85	4.00
4' scraper	.292	.166	.25 hr	.07	.04	3.85	4.00
2 way/2-16" plow	1.692	1.047	.75 hr	1.27	.79	69.85	79.00
9' offset disk	1.323	1.209	.64 hr	.85	.77	46.75	77.00
12' spiketooth	.042	.046	.20 hr	.01	.01	.55	1.00
12' cultipacker	3.455	1.900	.20 hr	.69	.38	37.95	69.00
4 row lister planter	1.390	.860	.61 hr	.85	.52	46.75	85.00
2 row cultivator	1.273	.700	1.00 hr	1.27	.70	69.85	127.00
4 row cultivator	1.425	1.087	1.57 hr	2.24	1.71	123.20	224.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	87.00
1 row cotton picker	4.758	2.617	5.56 hr	26.45	14.55	1,454.75	2,645.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	30.00
<b>Materials:</b>							
Irrigation water 1955	.585		42.0 ac"	40.28		2,215.40	
1953		.529	39.0 ac"		32.53		3,253.00
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	113.85	207.00
<b>Labor:</b>							
Drivers 1955	1.00		12.55 hr	12.55		690.25	
1953		1.00	12.02 hr		12.02		1,202.00
Irrigators 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.09 hr	2.78	2.78	152.90	278.00
Soc. sec. & comp. insur.				1.84	1.74	101.06	173.94
<b>Contracts:</b>							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH <sub>3</sub> ) 1955			120 lbs	14.10		775.50	
(NH <sub>3</sub> ) 1953			100 lbs		11.75		1,175.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Dust 2X (5% DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.1 bale	30.87		1,697.85	
1953		14.70	1.75 bale		25.72		2,572.00
Ins. & storage 1955	1.19		2.1 bale	2.50		137.50	
1953		1.19	1.75 bale		2.08		208.00
Interest on operating capital				4.71	4.32	259.12	431.56
Total operating				219.45	184.82	12,069.68	19,898.50
Total cost				316.07	250.72	17,470.26	26,525.05

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



1. The first part of the report is a general description of the project and its objectives. This section should be written in a clear and concise manner, using simple language that is easy to understand. It should also include a brief overview of the project's history and the current status of the work.

2. The second part of the report is a detailed description of the project's methodology. This section should describe the methods used to collect and analyze data, and should include a discussion of the strengths and limitations of the methodology.

3. The third part of the report is a discussion of the project's results. This section should present the findings of the study in a clear and organized manner, and should include a discussion of the implications of the results for the field of study.

4. The fourth part of the report is a conclusion and a list of references. The conclusion should summarize the main findings of the study and provide a final assessment of the project's value. The references should list all of the sources used in the study.

5. The fifth part of the report is a list of appendices. These appendices should contain any additional information that is relevant to the study, such as raw data, detailed calculations, or additional figures.

Table 44. Annual Tractor and Equipment Hours, 1955 and 1953; 160-2 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa		Potatoes			Milo			Barley		All crop total	
	per acre	1955 total (55 ac)	1953 total (100 ac)	per acre	1955 total (20 ac)	per acre	1955 total (28 ac)	1953 total (35 ac)	per acre	1955 total (40 ac)	1953 total (10 ac)	per acre	1955 total (40 ac)	1955	1953
T-5D	1.64	90.20	164.00	.33	6.60	2.19	61.32	76.65	1.19	47.60	11.90	.70	28.00	233.72	252.55
W-2	7.01	385.55	701.00	4.30	8.60	2.78	77.84	97.30	2.05	82.00	20.05	.66	26.40	580.39	818.35
Pickup														(10,000 miles)	
4' ditcher	.25	13.75	25.00			.10	2.80	3.50	.20	8.00	2.00			24.55	30.50
4' scraper	.25	13.75	25.00			.10	2.80	3.50	.20	8.00	2.00			24.55	30.50
2w/2-16" plow	.75	41.25	75.00			.75	21.00	26.25						62.25	101.25
9' offset disk	.64	35.20	64.00	.33	6.60	1.34	37.52	46.90	.99	39.60	9.90	.70	28.00	146.92	120.80
12' spiketooth harrow	.20	11.00	20.00	.14	2.80	.90	25.20	31.50				.57	22.80	61.80	51.50
12' cultipacker	.20	11.00	20.00						.35	14.00	3.50			36.00	23.50
4 row lister planter	.61	33.55	61.00						.61	24.40	6.10			57.95	67.10
2 row cultivator	1.00	55.00	100.00			.90	25.20	31.50						80.20	131.50
4 row cultivator	1.57	86.35	157.00						1.24	49.60	12.40			135.95	169.40
1 row cotton picker	5.56	305.80	556.00											305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00											82.50	150.00
2 row stalk cutter	.50	27.50	50.00											27.50	50.00
7' power mower				2.17	43.40									43.40	a/
8' side delivery rake				2.03	40.60									40.60	a/
2 row potato planter						1.28	35.84	44.80						35.84	44.80
6' steel roller						.30	8.40	10.50						8.40	10.50

a/ This equipment purchased after 1953.

7. 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2



Table 45. Irrigation Water Use, 1955 and 1953; for 160-2 Farms in  
Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Milo		Barley		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	per acre	total	
<u>1955</u>	( 55 acres)		( 20 acres)		( 28 acres)		( 40 acres)		( 40 acres)		
1/1 - 4/30	6.0	330	13.6	272	22.0	616	-	-	14.4	576	1794
5/1 - 6/30	8.0	440	16.0	320	14.0	392	6.0	240	-	-	1392
7/1 - 8/31	24.0	1320	16.0	320	-	-	17.0	680	-	-	2320
9/1 - 12/31	4.0	220	12.0	240	-	-	4.0	160	-	-	620
Seasonal per acre	42.0	-	57.6	-	36.0	-	27.0	-	14.4	-	-
Seasonal per farm	-	2310	-	1152	-	1008	-	1080	-	576	6126
<u>1953</u>	(100 acres)		(-----)		( 35 acres)		( 10 acres)		(-----)		
1/1 - 4/30	5.0	500	-	-	22.0	770	-	-	-	-	1270
5/1 - 6/30	6.0	600	-	-	14.0	490	6.0	60	-	-	1150
7/1 - 8/31	24.0	2400	-	-	-	-	17.0	170	-	-	2570
9/1 - 12/31	4.0	400	-	-	-	-	4.0	40	-	-	440
Seasonal per acre	39.0	-	-	-	36.0	-	27.0	-	-	-	-
Seasonal per farm	-	3900	-	-	-	1260	-	270	-	-	5430

RECEIVED THE 2000  
RECEIVED THE 2000

1/2	3/4
1/4	1/2
1/8	1/4
1/16	1/8

Figure 1

0-900000    Vol. 100  
0-900000    Vol. 700

I - 100  
 II - 100  
 III - 100  
 IV - 100

100

7631 525 16161

Table 46. Inputs and Costs to Establish an Alfalfa Stand on 160-2

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 20 acres	1953 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	5.037		1.31 hr	6.60		132.00	
Tractor W-2	2.261		.42 hr	.95		19.00	
Equipment:							
9' offset disk	1.412		1.31 hr	1.85		37.00	
12' spiketooth	.165		.55 hr	.09		1.80	
Broadcaster (rented)	.25		.22 hr	.06		1.20	
Materials:							
Irrigation water	.697		8.0 ac"	5.58		111.60	
Seed	.34		25 lbs	8.50		170.00	
Labor:							
Drivers	1.00		1.73 hr	1.73		34.60	
Irrigators	.90		3.46 hr	3.11		62.20	
Soc. Sec. & Comp. Insur.				.28		5.61	
Contracts:							
Chisel 2X				5.50		110.00	
Landplane 3X				12.00		240.00	
Make borders				.75		15.00	
Dust (2% parathion)			12.5 lbs	2.19		42.80	
Total cost				49.14		982.81	
Amount charged off annually <sup>a/</sup>				12.28		245.70	

<sup>a/</sup> Total cost to establish stand is depreciated over four years.



Table 1. Total and Net Income of 1964

Total Income  
Net Income

1964  
Total Income  
Net Income

1964

Table 2. Total and Net Income of 1965

Table 47. Inputs and Costs for Producing Alfalfa on 160-2  
1955 Yield: 7.0 Tons

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 20 acres	1953 acres
1	2	3	4	5	6	7	8
<u>Overhead:</u>							
Real estate taxes				6.50		156.00a/	
Office				1.52		31.93a/	
Improvements				2.47		51.88a/	
Power				8.02		160.40	
Equipment				5.25		105.00	
Irrigation water				13.71		274.20	
1/4 cost to establish stand				12.28		245.60	
Total overhead				49.75		1,025.01	
<u>Operating:</u>							
Power:							
Tractor W-2	.841		4.20 hr	3.53		70.60	
Pickup	.042		42.00 mi	1.76		35.20	
Equipment:							
7' power mower	.807		2.17 hr	1.75		35.00	
8' side delivery rake	1.281		2.03 hr	2.60		52.00	
Materials:							
Irrigation water	.459		57.6 ac"	26.44		528.80	
Labor:							
Drivers	1.00		5.25 hr	5.25		105.00	
Irrigators	.90		24.92 hr	22.43		448.60	
Soc. Sec. & Comp. Insur.				1.61		32.11	
Contracts:							
Bale	3.50		7.0 ton	24.50		490.00	
Roadside	1.75		7.0 ton	12.25		245.00	
Total operating				102.12		2,042.31	
Total cost				151.87		3,067.32	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

1940-1941: The first year of the war.

1942-1943: The second year of the war.

1944-1945: The third year of the war.

1946-1947: The fourth year of the war.

1948-1949: The fifth year of the war.

1950-1951: The sixth year of the war.

1952-1953: The seventh year of the war.

1954-1955: The eighth year of the war.

1956-1957: The ninth year of the war.

1958-1959: The tenth year of the war.

1960-1961: The eleventh year of the war.

1962-1963: The twelfth year of the war.

1964-1965: The thirteenth year of the war.

1966-1967: The fourteenth year of the war.

1968-1969: The fifteenth year of the war.

1970-1971: The sixteenth year of the war.

1972-1973: The seventeenth year of the war.

1974-1975: The eighteenth year of the war.

1976-1977: The nineteenth year of the war.

1978-1979: The twentieth year of the war.

1980-1981: The twenty-first year of the war.

1982-1983: The twenty-second year of the war.

1984-1985: The twenty-third year of the war.

1986-1987: The twenty-fourth year of the war.

1988-1989: The twenty-fifth year of the war.

1990-1991: The twenty-sixth year of the war.

1992-1993: The twenty-seventh year of the war.

1994-1995: The twenty-eighth year of the war.

1996-1997: The twenty-ninth year of the war.

1998-1999: The thirtieth year of the war.

2000-2001: The thirty-first year of the war.

2002-2003: The thirty-second year of the war.

2004-2005: The thirty-third year of the war.

2006-2007: The thirty-fourth year of the war.

2008-2009: The thirty-fifth year of the war.

2010-2011: The thirty-sixth year of the war.

2012-2013: The thirty-seventh year of the war.

2014-2015: The thirty-eighth year of the war.

2016-2017: The thirty-ninth year of the war.

2018-2019: The fortieth year of the war.

2020-2021: The forty-first year of the war.

2022-2023: The forty-second year of the war.

2024-2025: The forty-third year of the war.

2026-2027: The forty-fourth year of the war.

2028-2029: The forty-fifth year of the war.

2030-2031: The forty-sixth year of the war.

2032-2033: The forty-seventh year of the war.

2034-2035: The forty-eighth year of the war.

2036-2037: The forty-ninth year of the war.

2038-2039: The fiftieth year of the war.

2040-2041: The fifty-first year of the war.

2042-2043: The fifty-second year of the war.

2044-2045: The fifty-third year of the war.

2046-2047: The fifty-fourth year of the war.

2048-2049: The fifty-fifth year of the war.

2050-2051: The fifty-sixth year of the war.

2052-2053: The fifty-seventh year of the war.

2054-2055: The fifty-eighth year of the war.

2056-2057: The fifty-ninth year of the war.

2058-2059: The sixtieth year of the war.

2060-2061: The sixty-first year of the war.

2062-2063: The sixty-second year of the war.

2064-2065: The sixty-third year of the war.

2066-2067: The sixty-fourth year of the war.

2068-2069: The sixty-fifth year of the war.

2070-2071: The sixty-sixth year of the war.

2072-2073: The sixty-seventh year of the war.

2074-2075: The sixty-eighth year of the war.

2076-2077: The sixty-ninth year of the war.

2078-2079: The seventieth year of the war.

2080-2081: The seventy-first year of the war.

2082-2083: The seventy-second year of the war.

2084-2085: The seventy-third year of the war.

2086-2087: The seventy-fourth year of the war.

2088-2089: The seventy-fifth year of the war.

2090-2091: The seventy-sixth year of the war.

2092-2093: The seventy-seventh year of the war.

2094-2095: The seventy-eighth year of the war.

2096-2097: The seventy-ninth year of the war.

2098-2099: The eightieth year of the war.

2100-2101: The eighty-first year of the war.

2102-2103: The eighty-second year of the war.

2104-2105: The eighty-third year of the war.

2106-2107: The eighty-fourth year of the war.

2108-2109: The eighty-fifth year of the war.

2110-2111: The eighty-sixth year of the war.

2112-2113: The eighty-seventh year of the war.

2114-2115: The eighty-eighth year of the war.

2116-2117: The eighty-ninth year of the war.

2118-2119: The ninetieth year of the war.

2120-2121: The ninety-first year of the war.

2122-2123: The ninety-second year of the war.

2124-2125: The ninety-third year of the war.

2126-2127: The ninety-fourth year of the war.

2128-2129: The ninety-fifth year of the war.

2130-2131: The ninety-sixth year of the war.

2132-2133: The ninety-seventh year of the war.

2134-2135: The ninety-eighth year of the war.

2136-2137: The ninety-ninth year of the war.

2138-2139: The hundredth year of the war.

2140-2141: The hundred and first year of the war.

2142-2143: The hundred and second year of the war.

2144-2145: The hundred and third year of the war.

2146-2147: The hundred and fourth year of the war.

2148-2149: The hundred and fifth year of the war.

2150-2151: The hundred and sixth year of the war.

2152-2153: The hundred and seventh year of the war.

2154-2155: The hundred and eighth year of the war.

2156-2157: The hundred and ninth year of the war.

2158-2159: The hundred and tenth year of the war.

2160-2161: The hundred and eleventh year of the war.

2162-2163: The hundred and twelfth year of the war.

2164-2165: The hundred and thirteenth year of the war.

2166-2167: The hundred and fourteenth year of the war.

2168-2169: The hundred and fifteenth year of the war.

2170-2171: The hundred and sixteenth year of the war.

2172-2173: The hundred and seventeenth year of the war.

2174-2175: The hundred and eighteenth year of the war.

2176-2177: The hundred and nineteenth year of the war.

2178-2179: The hundred and twentieth year of the war.

2180-2181: The hundred and twenty-first year of the war.

2182-2183: The hundred and twenty-second year of the war.

2184-2185: The hundred and twenty-third year of the war.

2186-2187: The hundred and twenty-fourth year of the war.

2188-2189: The hundred and twenty-fifth year of the war.

2190-2191: The hundred and twenty-sixth year of the war.

2192-2193: The hundred and twenty-seventh year of the war.

2194-2195: The hundred and twenty-eighth year of the war.

2196-2197: The hundred and twenty-ninth year of the war.

2198-2199: The hundred and thirtieth year of the war.

2200-2201: The hundred and thirty-first year of the war.

2202-2203: The hundred and thirty-second year of the war.

2204-2205: The hundred and thirty-third year of the war.

2206-2207: The hundred and thirty-fourth year of the war.

2208-2209: The hundred and thirty-fifth year of the war.

2210-2211: The hundred and thirty-sixth year of the war.

2212-2213: The hundred and thirty-seventh year of the war.

2214-2215: The hundred and thirty-eighth year of the war.

2216-2217: The hundred and thirty-ninth year of the war.

2218-2219: The hundred and fortieth year of the war.

2220-2221: The hundred and forty-first year of the war.

2222-2223: The hundred and forty-second year of the war.

2224-2225: The hundred and forty-third year of the war.

2226-2227: The hundred and forty-fourth year of the war.

2228-2229: The hundred and forty-fifth year of the war.

2230-2231: The hundred and forty-sixth year of the war.

2232-2233: The hundred and forty-seventh year of the war.

2234-2235: The hundred and forty-eighth year of the war.

2236-2237: The hundred and forty-ninth year of the war.

2238-2239: The hundred and fiftieth year of the war.

2240-2241: The hundred and fifty-first year of the war.

2242-2243: The hundred and fifty-second year of the war.

2244-2245: The hundred and fifty-third year of the war.

2246-2247: The hundred and fifty-fourth year of the war.

2248-2249: The hundred and fifty-fifth year of the war.

2250-2251: The hundred and fifty-sixth year of the war.

2252-2253: The hundred and fifty-seventh year of the war.

2254-2255: The hundred and fifty-eighth year of the war.

2256-2257: The hundred and fifty-ninth year of the war.

2258-2259: The hundred and sixtieth year of the war.

2260-2261: The hundred and sixty-first year of the war.

2262-2263: The hundred and sixty-second year of the war.

2264-2265: The hundred and sixty-third year of the war.

2266-2267: The hundred and sixty-fourth year of the war.

2268-2269: The hundred and sixty-fifth year of the war.

2270-2271: The hundred and sixty-sixth year of the war.

2272-2273: The hundred and sixty-seventh year of the war.

2274-2275: The hundred and sixty-eighth year of the war.

2276-2277: The hundred and sixty-ninth year of the war.

2278-2279: The hundred and seventieth year of the war.

2280-2281: The hundred and seventy-first year of the war.

2282-2283: The hundred and seventy-second year of the war.

2284-2285: The hundred and seventy-third year of the war.

2286-2287: The hundred and seventy-fourth year of the war.

2288-2289: The hundred and seventy-fifth year of the war.

2290-2291: The hundred and seventy-sixth year of the war.

2292-2293: The hundred and seventy-seventh year of the war.

2294-2295: The hundred and seventy-eighth year of the war.

2296-2297: The hundred and seventy-ninth year of the war.

2298-2299: The hundred and eightieth year of the war.

2300-2301: The hundred and eighty-first year of the war.

2302-2303: The hundred and eighty-second year of the war.

2304-2305: The hundred and eighty-third year of the war.

2306-2307: The hundred and eighty-fourth year of the war.

2308-2309: The hundred and eighty-fifth year of the war.

2310-2311: The hundred and eighty-sixth year of the war.

2312-2313: The hundred and eighty-seventh year of the war.

2314-2315: The hundred and eighty-eighth year of the war.

2316-2317: The hundred and eighty-ninth year of the war.

2318-2319: The hundred and ninetieth year of the war.

2320-2321: The hundred and ninety-first year of the war.

2322-2323: The hundred and ninety-second year of the war.

2324-2325: The hundred and ninety-third year of the war.

2326-2327: The hundred and ninety-fourth year of the war.

2328-2329: The hundred and ninety-fifth year of the war.

2330-2331: The hundred and ninety-sixth year of the war.

2332-2333: The hundred and ninety-seventh year of the war.

2334-2335: The hundred and ninety-eighth year of the war.

2336-2337: The hundred and ninety-ninth year of the war.

2338-2339: The two hundredth year of the war.

2340-2341: The two hundred and first year of the war.

2342-2343: The two hundred and second year of the war.

2344-2345: The two hundred and third year of the war.

2346-2347: The two hundred and fourth year of the war.

2348-2349: The two hundred and fifth year of the war.

2350-2351: The two hundred and sixth year of the war.

2352-2353: The two hundred and seventh year of the war.

2354-2355: The two hundred and eighth year of the war.

2356-2357: The two hundred and ninth year of the war.

2358-2359: The two hundred and tenth year of the war.

2360-2361: The two hundred and eleventh year of the war.

2362-2363: The two hundred and twelfth year of the war.

2364-2365: The two hundred and thirteenth year of the war.

2366-2367: The two hundred and fourteenth year of the war.

2368-2369: The two hundred and fifteenth year of the war.

2370-2371: The two hundred and sixteenth year of the war.

2372-2373: The two hundred and seventeenth year of the war.

2374-2375: The two hundred and eighteenth year of the war.

2376-2377: The two hundred and nineteenth year of the war.

2378-2379: The two hundred and twentieth year of the war.

2380-2381: The two hundred and twenty-first year of the war.

2382-2383: The two hundred and twenty-second year of the war.

2384-2385: The two hundred and twenty-third year of the war.

2386-2387: The two hundred and twenty-fourth year of the war.

2388-2389: The two hundred and twenty-fifth year of the war.

2390-2391: The two hundred and twenty-sixth year of the war.

2392-2393: The two hundred and twenty-seventh year of the war.

2394-2395: The two hundred and twenty-eighth year of the war.

2396-2397: The two hundred and twenty-ninth year of the war.

2398-2399: The two hundred and thirtieth year of the war.

2400-2401: The two hundred and thirty-first year of the war.

2402-2403: The two hundred and thirty-second year of the war.



Table 48. Inputs and Costs for Producing Barley on 160-2  
1955 Yield: 25 cwt

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 40 acres	1953 acres
1	2	3	4	5	6	7	8
<u>Overhead:</u>							
Real estate taxes				3.25 <sup>b</sup> /		143.00 <sup>a</sup> /	
Office				.76 <sup>b</sup> /		31.17 <sup>a</sup> /	
Improvements				1.24 <sup>b</sup> /		50.64 <sup>a</sup> /	
Power				6.74		269.60	
Equipment				.70		28.00	
Irrigation water				3.43		137.20	
Total overhead				16.12		659.61	
<u>Operating:</u>							
Power:							
Tractor T-5D	1.463		.70 hr	1.02		40.80	
Tractor W-2	.841		.66 hr	.56		22.40	
Pickup	.042		42.02 mi	1.76		70.40	
Equipment:							
9' offset disk	.765		.70 hr	.54		21.60	
12' spiketooth	.029		.57 hr	.02		.80	
Border disk (rented)	.50		.22 hr	.11		4.40	
Broadcaster (rented)	.25		.22 hr	.06		2.40	
Materials:							
Irrigation water	.459		14.4 ac"	6.61		264.40	
Seed	.04		80 lbs	3.20		128.00	
Labor:							
Drivers	1.00		2.41 hr	2.41		96.40	
Irrigators	.90		6.23 hr	5.61		224.40	
Soc. Sec. & Comp. Insur.				.47		18.61	
Contracts:							
Harvest				5.00		200.00	
Haul	.10		25 cwt	2.50		100.00	
Storage	.144		25 cwt	3.60		144.00	
Insurance (\$1.50 per \$100.00 of value)			25 cwt	.81		32.40	
Interest on operating capital				.74		29.55	
Total operating				35.02		1,400.56	
Total cost				51.14		2,060.17	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.

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Table 49. Inputs and Costs for Producing Cotton on 160-2  
 1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 55 acres	1953 100 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	390.00a/	682.50a/
Office				1.52	1.52	86.65a/	153.54a/
Improvements				2.47	2.47	140.82a/	249.51a/
Power				19.94	16.48	1,096.70	1,648.00
Equipment				41.85	24.34	2,301.75	2,434.00
Irrigation water				10.00	10.49	550.00	1,049.00
Total overhead				82.28	61.80	4,565.92	6,216.55
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.463	1.390	1.64 hr	2.40	2.28	132.00	228.00
Tractor W-2	.841	.735	7.01 hr	5.90	5.15	324.50	515.00
Pickup 1955	.042		84.36 mi	3.54		194.70	
1953		.042	81.63 mi		3.43		343.00
<b>Equipment:</b>							
4' ditcher	.164	.132	.25 hr	.04	.03	2.20	3.00
4' scraper	.171	.138	.25 hr	.04	.03	2.20	3.00
2 way/2-16" plow	1.325	.815	.75 hr	.99	.61	54.45	61.00
9' offset disk	.765	.932	.64 hr	.49	.60	26.95	60.00
12' spiketooth	.029	.035	.20 hr	.01	.01	.55	1.00
12' cultipacker	1.055	1.617	.20 hr	.21	.32	11.55	32.00
4 row lister planter	.949	.820	.61 hr	.58	.50	31.90	50.00
2 row cultivator	.873	.532	1.00 hr	.87	.53	47.85	53.00
4 row cultivator	1.471	1.180	1.57 hr	2.31	1.85	127.05	185.00
1 row cotton picker	4.599	2.617	5.56 hr	25.57	14.55	1,406.35	1,455.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	48.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	16.00
<b>Materials:</b>							
Irrigation water 1955	.459		42.0 ac"	19.28		1,060.40	
1953		.491	39.0 ac"		19.15		1,915.00
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	113.85	207.00
<b>Labor:</b>							
Drivers 1955	1.00		11.91 hr	11.91		655.05	
1953		1.00	11.88 hr		11.88		1,188.00
Irrigators 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.09 hr	2.78	2.78	152.90	278.00
Soc. Sec. & Comp. Insur.				1.80	1.73	99.02	173.13
<b>Contracts:</b>							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH <sub>3</sub> ) 1955			120 lbs	14.10		775.50	
(NH <sub>3</sub> ) 1953			100 lbs		11.75		1,175.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.5 bale	36.75		2,021.25	
1953		14.70	2.1 bale		30.87		3,087.00
Insur. & storage 1955	1.19		2.5 bale	2.98		163.90	
1953		1.19	2.1 bale		2.50		250.00
Interest on operating capital				4.01	3.52	220.57	352.14
Total operating				198.50	174.32	10,917.54	17,432.27
Total cost				280.78	236.12	15,483.46	23,648.82

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



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*Journal of Management Education* 30(6)p.789-804  
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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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Table 50. Inputs and Costs for Producing Milo on 160-2  
 1955 Yield: 30 cwt      1953 Yield: 30 cwt

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 40 acres	1953 10 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				3.25b/	6.50	143.00a/	97.50a/
Office				.76b/	1.52	31.17a/	16.73a/
Improvements				1.24b/	2.47	50.64a/	27.17a/
Power				9.22	8.00	368.80	80.00
Equipment				3.28	3.29	131.20	32.90
Irrigation water				6.43	7.26	257.20	72.60
Total overhead				24.18	29.04	982.01	326.90
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.462	1.390	1.19 hr	1.74	1.65	69.60	16.50
Tractor W-2	.841	.735	2.05 hr	1.72	1.51	68.80	15.10
Pickup 1955	.042		42.03 mi	1.77		70.80	
1953		.042	40.80 mi		1.71		17.10
<b>Equipment:</b>							
4' ditcher	.164	.132	.20 hr	.03	.03	1.20	.30
4' scraper	.171	.138	.20 hr	.03	.03	1.20	.30
9' offset disk	.765	.932	.99 hr	.76	.92	30.40	9.20
12' cultipacker	1.055	1.617	.35 hr	.37	.57	14.80	5.70
4 row lister planter	.949	.820	.61 hr	.58	.50	23.20	5.00
4 row cultivator	1.471	1.180	1.24 hr	1.82	1.46	72.80	14.60
<b>Materials:</b>							
Irrigation water	.459	.491	27.0 ac"	12.39	13.26	495.60	132.60
Seed	.08	.08	10 lbs	.80	.80	32.00	8.00
<b>Labor:</b>							
Driver 1955	1.00		4.29 hr	4.29		171.60	
1953		1.00	4.26 hr		4.26		42.60
Irrigators	.90	.90	11.68 hr	10.51	10.51	420.40	105.10
General	.90	.90	.31 hr	.28	.28	11.20	2.80
Soc. Sec. & Comp. Insur.				.87	.87	34.99	8.73
<b>Contracts:</b>							
Harvest				6.00	6.00	240.00	60.00
Haul	.10	.10	30 cwt	3.00	3.00	120.00	30.00
Storage	.144	.144	30 cwt	4.32	4.32	172.80	43.20
Insurance (\$1.50 per \$100.00 of value)			30 cwt	1.04	1.24	41.60	12.40
Interest on operating capital				1.32	1.34	52.84	13.38
Total operating				53.64	54.26	2,145.83	542.61
Total cost				77.82	83.30	3,127.84	869.51

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each crop.



1. The first part of the report is a general description of the project and its objectives. It includes a brief history of the project and a statement of the problem to be solved.

2. The second part of the report is a detailed description of the methodology used in the study. It includes a description of the data collection methods and the statistical analysis techniques used.

3. The third part of the report is a presentation of the results of the study. It includes a description of the data and a discussion of the findings.

4. The fourth part of the report is a discussion of the implications of the findings. It includes a discussion of the limitations of the study and suggestions for further research.

5. The fifth part of the report is a conclusion. It includes a summary of the findings and a statement of the overall conclusions of the study.

6. The sixth part of the report is a list of references. It includes a list of the books, articles, and other sources used in the study.

7. The seventh part of the report is an appendix. It includes a list of the tables, figures, and other supplementary material used in the study.

8. The eighth part of the report is a glossary. It includes a list of the terms and abbreviations used in the study.

9. The ninth part of the report is a list of figures. It includes a list of the figures and a description of each figure.



Table 51. Inputs and Costs for Producing Potatoes on 160-2  
 1955 Yield: 290 cwt      1953 Yield: 290 cwt

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 28 acres	1953 35 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	208.00a/	260.00a/
Office				1.52	1.52	44.08a/	54.73a/
Improvements				2.47	2.47	71.64a/	88.94a/
Power				17.09	14.35	478.52	502.25
Equipment				5.47	4.54	153.16	158.90
Irrigation water				8.57	9.68	239.96	338.80
Total overhead				41.62	39.06	1,195.36	1,403.62
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.463	1.390	2.19 hr	3.20	3.04	89.60	106.40
Tractor W-2	.841	.735	5.07 hr	4.77	4.17	133.56	145.95
Pickup	.042		42.00 mi	1.76		49.28	
	1955						
	1953	.042	40.80 mi		1.71		59.85
<b>Equipment:</b>							
4' ditcher	.164	.132	.10 hr	.02	.01	.56	.35
4' scraper	.171	.138	.10 hr	.02	.01	.56	.35
2 way/2-16" plow	1.325	.815	.75 hr	.99	.61	27.72	21.35
9' offset disk	.765	.932	1.34 hr	1.03	1.25	28.84	43.75
12' spiketooth	.029	.035	.90 hr	.03	.03	.84	1.05
2 row potato planter	1.953	1.563	1.28 hr	2.50	2.00	70.00	70.00
2 row cultivator	.873	.532	.90 hr	.79	.48	22.12	16.80
6' steel roller	1.191	.953	.30 hr	.36	.29	10.08	10.15
<b>Materials:</b>							
Irrigation water	.459	.491	36.0 ac"	16.52	17.68	462.56	618.80
Seed	6.30	6.30	16 cwt	100.80	100.80	2,822.40	3,528.00
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	840.00	1,050.00
<b>Labor:</b>							
Drivers	1.00		6.02 hr	6.02		168.56	
	1955						
	1953	1.00	5.99 hr		5.99		209.65
Irrigators	.90	.90	15.58 hr	14.02	14.02	392.56	490.70
General	.90	.90	1.28 hr	1.15	1.15	32.20	40.25
Soc. Sec. & Comp. Ins.				1.23	1.23	34.41	42.95
<b>Contracts:</b>							
Dust (5% DDT-50% sulfur)			30 lbs	4.05	4.05	113.40	141.75
Rotobeat				3.00	3.00	84.00	105.00
Dig				12.00	12.00	336.00	420.00
Pick	.16	.16	360 cwt	57.60	57.60	1,612.80	2,016.00
Haul	.075	.075	360 cwt	27.00	27.00	756.00	945.00
Shed costs	.55	.55	290 cwt	159.50	159.50	4,466.00	5,582.50
Interest on operating capital				5.04	5.02	141.09	175.68
Total operating				453.40	452.64	12,695.14	15,842.28
Total cost				495.02	491.70	13,890.50	17,245.90

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

Form 100-10

Instructions for the use of this form are given on the reverse side.

Name		Address		City		State		Zip		Phone	
Mr. J. W. Smith		123 Main St.		New York		NY		10001		212-555-1234	
Mrs. A. B. Jones		456 Elm St.		Los Angeles		CA		90001		213-555-5678	
Mr. C. D. Brown		789 Oak St.		Chicago		IL		60601		312-555-9012	
Ms. E. F. Green		101 Pine St.		Houston		TX		77001		713-555-3456	
Mr. G. H. White		202 Maple St.		Phoenix		AZ		85001		602-555-7890	
Mrs. I. J. Black		303 Cedar St.		San Antonio		TX		78101		214-555-2345	
Mr. K. L. Gray		404 Birch St.		Dallas		TX		75201		214-555-6789	
Ms. M. N. Hall		505 Spruce St.		San Diego		CA		92101		619-555-0123	
Mr. O. P. King		606 Willow St.		San Jose		CA		95101		408-555-4567	
Mrs. Q. R. Lee		707 Ash St.		Austin		TX		78701		512-555-8901	
Mr. S. T. Scott		808 Hickory St.		Fort Worth		TX		76101		817-555-2345	
Ms. U. V. Walker		909 Walnut St.		Jacksonville		FL		32201		904-555-6789	
Mr. W. X. Young		1010 Cherry St.		Nashville		TN		37201		615-555-0123	
Mrs. Y. Z. Adams		1111 Elm St.		Portland		ME		04101		207-555-4567	
Mr. A. B. Baker		1212 Maple St.		Boston		MA		02101		617-555-8901	
Ms. C. D. Carter		1313 Oak St.		Seattle		WA		98101		206-555-2345	
Mr. E. F. Evans		1414 Pine St.		Denver		CO		80201		303-555-6789	
Mrs. G. H. Fisher		1515 Cedar St.		San Francisco		CA		94101		415-555-0123	
Mr. I. J. Gibson		1616 Birch St.		Phoenix		AZ		85001		602-555-4567	
Ms. K. L. Hall		1717 Spruce St.		San Antonio		TX		78101		214-555-8901	
Mr. M. N. Hill		1818 Willow St.		Dallas		TX		75201		214-555-2345	
Mrs. O. P. King		1919 Ash St.		San Diego		CA		92101		619-555-6789	
Mr. Q. R. Lee		2020 Hickory St.		San Jose		CA		95101		408-555-0123	
Ms. S. T. Scott		2121 Walnut St.		Austin		TX		78701		512-555-4567	
Mr. U. V. Walker		2222 Cherry St.		Fort Worth		TX		76101		817-555-8901	
Mrs. W. X. Young		2323 Elm St.		Jacksonville		FL		32201		904-555-2345	
Mr. Y. Z. Adams		2424 Maple St.		Nashville		TN		37201		615-555-6789	
Ms. A. B. Baker		2525 Oak St.		Portland		ME		04101		207-555-0123	
Mr. C. D. Carter		2626 Pine St.		Boston		MA		02101		617-555-4567	
Mrs. E. F. Evans		2727 Cedar St.		Seattle		WA		98101		206-555-8901	
Mr. G. H. Fisher		2828 Birch St.		Denver		CO		80201		303-555-2345	
Ms. I. J. Gibson		2929 Spruce St.		San Francisco		CA		94101		415-555-6789	
Mr. K. L. Hall		3030 Willow St.		Phoenix		AZ		85001		602-555-0123	
Mrs. M. N. Hill		3131 Ash St.		San Antonio		TX		78101		214-555-4567	
Mr. O. P. King		3232 Hickory St.		Dallas		TX		75201		214-555-8901	
Ms. Q. R. Lee		3333 Walnut St.		San Diego		CA		92101		619-555-2345	
Mr. S. T. Scott		3434 Cherry St.		San Jose		CA		95101		408-555-6789	
Mrs. U. V. Walker		3535 Elm St.		Austin		TX		78701		512-555-0123	
Mr. W. X. Young		3636 Maple St.		Fort Worth		TX		76101		817-555-4567	
Ms. Y. Z. Adams		3737 Oak St.		Jacksonville		FL		32201		904-555-8901	
Mr. A. B. Baker		3838 Pine St.		Nashville		TN		37201		615-555-2345	
Mrs. C. D. Carter		3939 Cedar St.		Portland		ME		04101		207-555-6789	
Mr. E. F. Evans		4040 Birch St.		Boston		MA		02101		617-555-0123	
Ms. G. H. Fisher		4141 Spruce St.		Seattle		WA		98101		206-555-4567	
Mr. I. J. Gibson		4242 Willow St.		Denver		CO		80201		303-555-8901	
Mrs. K. L. Hall		4343 Ash St.		San Francisco		CA		94101		415-555-2345	
Mr. M. N. Hill		4444 Hickory St.		Phoenix		AZ		85001		602-555-6789	
Ms. O. P. King		4545 Walnut St.		San Antonio		TX		78101		214-555-0123	
Mr. Q. R. Lee		4646 Cherry St.		Dallas		TX		75201		214-555-4567	
Mrs. S. T. Scott		4747 Elm St.		San Diego		CA		92101		619-555-8901	
Mr. U. V. Walker		4848 Maple St.		San Jose		CA		95101		408-555-2345	
Ms. W. X. Young		4949 Oak St.		Austin		TX		78701		512-555-6789	
Mr. Y. Z. Adams		5050 Pine St.		Fort Worth		TX		76101		817-555-0123	
Mrs. A. B. Baker		5151 Cedar St.		Jacksonville		FL		32201		904-555-4567	
Mr. C. D. Carter		5252 Birch St.		Nashville		TN		37201		615-555-8901	
Ms. E. F. Evans		5353 Spruce St.		Portland		ME		04101		207-555-2345	
Mr. G. H. Fisher		5454 Willow St.		Boston		MA		02101		617-555-6789	
Mrs. I. J. Gibson		5555 Ash St.		Seattle		WA		98101		206-555-0123	
Mr. K. L. Hall		5656 Hickory St.		Denver		CO		80201		303-555-4567	
Ms. M. N. Hill		5757 Walnut St.		San Francisco		CA		94101		415-555-8901	
Mr. O. P. King		5858 Cherry St.		Phoenix		AZ		85001		602-555-2345	
Mrs. Q. R. Lee		5959 Elm St.		San Antonio		TX		78101		214-555-6789	
Mr. S. T. Scott		6060 Maple St.		Dallas		TX		75201		214-555-0123	
Ms. U. V. Walker		6161 Oak St.		San Diego		CA		92101		619-555-4567	
Mr. W. X. Young		6262 Pine St.		San Jose		CA		95101		408-555-8901	
Mrs. Y. Z. Adams		6363 Cedar St.		Austin		TX		78701		512-555-2345	
Mr. A. B. Baker		6464 Birch St.		Fort Worth		TX		76101		817-555-6789	
Ms. C. D. Carter		6565 Spruce St.		Jacksonville		FL		32201		904-555-0123	
Mr. E. F. Evans		6666 Willow St.		Nashville		TN		37201		615-555-4567	
Mrs. G. H. Fisher		6767 Ash St.		Seattle		WA		98101		206-555-8901	
Mr. I. J. Gibson		6868 Hickory St.		Denver		CO		80201		303-555-2345	
Ms. K. L. Hall		6969 Walnut St.		San Francisco		CA		94101		415-555-6789	
Mr. M. N. Hill		7070 Cherry St.		Phoenix		AZ		85001		602-555-0123	
Mrs. O. P. King		7171 Elm St.		San Antonio		TX		78101		214-555-4567	
Mr. Q. R. Lee		7272 Maple St.		Dallas		TX		75201		214-555-8901	
Ms. S. T. Scott		7373 Oak St.		San Diego		CA		92101		619-555-2345	
Mr. U. V. Walker		7474 Pine St.		San Jose		CA		95101		408-555-6789	
Mrs. W. X. Young		7575 Cedar St.		Austin		TX		78701		512-555-0123	
Mr. Y. Z. Adams		7676 Birch St.		Fort Worth		TX		76101		817-555-4567	
Ms. A. B. Baker		7777 Spruce St.		Jacksonville		FL		32201		904-555-8901	
Mr. C. D. Carter		7878 Willow St.		Nashville		TN		37201		615-555-2345	
Mrs. E. F. Evans		7979 Ash St.		Seattle		WA		98101		206-555-6789	
Mr. G. H. Fisher		8080 Hickory St.		Denver		CO		80201		303-555-0123	
Ms. I. J. Gibson		8181 Walnut St.		San Francisco		CA		94101		415-555-4567	
Mr. K. L. Hall		8282 Cherry St.		Phoenix		AZ		85001		602-555-8901	
Mrs. M. N. Hill		8383 Elm St.		San Antonio		TX		78101		214-555-2345	
Mr. O. P. King		8484 Maple St.		Dallas		TX		75201		214-555-6789	
Ms. Q. R. Lee		8585 Oak St.		San Diego		CA		92101		619-555-0123	
Mr. S. T. Scott		8686 Pine St.		San Jose		CA		95101		408-555-4567	
Mrs. U. V. Walker		8787 Cedar St.		Austin		TX		78701		512-555-8901	
Mr. W. X. Young		8888 Birch St.		Fort Worth		TX		76101		817-555-2345	
Ms. Y. Z. Adams		8989 Spruce St.		Jacksonville		FL		32201		904-555-6789	
Mr. A. B. Baker		9090 Willow St.		Nashville		TN		37201		615-555-0123	
Mrs. C. D. Carter		9191 Ash St.		Seattle		WA		98101		206-555-4567	
Mr. E. F. Evans		9292 Hickory St.		Denver		CO		80201		303-555-8901	
Ms. G. H. Fisher		9393 Walnut St.		San Francisco		CA		94101		415-555-2345	
Mr. I. J. Gibson		9494 Cherry St.		Phoenix		AZ		85001		602-555-6789	
Mrs. K. L. Hall		9595 Elm St.		San Antonio		TX		78101		214-555-0123	
Mr. M. N. Hill		9696 Maple St.		Dallas		TX		75201		214-555-4567	
Ms. O. P. King		9797 Oak St.		San Diego		CA		92101		619-555-8901	
Mr. Q. R. Lee		9898 Pine St.		San Jose		CA		95101		408-555-2345	
Mrs. S. T. Scott		9999 Cedar St.		Austin		TX		78701		512-555-6789	



Table 52. Annual Tractor and Equipment Hours, 1955 and 1953; 160-3 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa			Potatoes			Corn		All crop total	
	per acre	1955 total (55 ac.)	1953 total (100 ac.)	per acre	1955 total (45 ac.)	1953 total (25 ac.)	per acre	1955 total (17 ac.)	1953 total (20 ac.)	per acre	1955 total (25 ac.)	1955	1953
T-5D	1.64	90.20	164.00	.33	14.85	8.25	2.19	37.23	43.80	1.39	34.75	177.03	216.05
W-2	7.01	385.55	701.00	4.30	193.50	107.50	2.78	47.26	55.60	2.27	56.75	683.06	864.10
Pickup												(10,000 miles)	
4' ditcher	.25	13.75	25.00				.10	1.70	2.00	.20	5.00	20.45	27.00
4' scraper	.25	13.75	25.00				.10	1.70	2.00	.20	5.00	20.45	27.00
2w/2-16" plow	.75	41.25	75.00				.75	12.75	15.00	.75	18.75	72.75	90.00
9' offset disk	.64	35.20	64.00	.33	14.85	8.25	1.34	22.78	26.80	.64	16.00	88.83	99.05
12' spiketooth harrow	.20	11.00	20.00	.14	6.30	3.50	.90	15.30	18.00			32.60	41.50
12' cultipacker	.20	11.00	20.00									11.00	20.00
4 row lister planter	.61	33.55	61.00							.63	15.75	49.30	61.00
2 row cultivator	1.00	55.00	100.00				.90	15.30	18.00			70.30	118.00
4 row cultivator	1.57	86.35	157.00							1.24	31.00	117.35	157.00
1 row cotton picker	5.56	305.80	556.00									305.80	556.00
5 bale cotton trailer	1.50	82.50	150.00									82.50	150.00
2 row stalk cutter	.50	27.50	50.00									27.50	50.00
7' power mower				2.17	97.65	54.25						97.65	54.25
8' side delivery rake				2.03	91.35	50.75						91.35	50.75
2 row potato planter							1.28	21.76	25.60			21.76	25.60
6' steel roller							.30	5.10	6.00			5.10	6.00





Table 53. Irrigation Water Use, 1955 and 1953; for 160-3 Farms in  
Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Corn		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	
1955	(55 acres)		(45 acres)		(17 acres)		(25 acres)		
1/1 - 4/30	6.0	330	13.6	612	22.0	374	6.0	150	1466
5/1 - 6/30	8.0	440	16.0	720	14.0	238	12.0	300	1698
7/1 - 8/31	24.0	1320	16.0	720	-	-	24.0	600	2640
9/1 - 12/31	4.0	220	12.0	540	-	-	-	-	760
Seasonal per acre	42.0	-	57.6	-	36.0	-	42.0	-	-
Seasonal per farm	-	2310	-	2592	-	612	-	1050	6564
1953	(100 acres)		(25 acres)		(20 acres)		(-----)		
1/1 - 4/30	5.0	500	13.6	340	22.0	440	-	-	1280
5/1 - 6/30	6.0	600	16.0	400	14.0	280	-	-	1280
7/1 - 8/31	24.0	2400	16.0	400	-	-	-	-	2800
9/1 - 12/31	4.0	400	12.0	300	-	-	-	-	700
Seasonal per acre	39.0	-	57.6	-	36.0	-	-	-	-
Seasonal per farm	-	3900	-	1440	-	720	-	-	6060





Table 54. Inputs and Costs to Establish an Alfalfa Stand on 160-3

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 45 acres	1953 25 acres
	2	3	4	5	6	7	8
Power:							
Tractor T-5D	6.490	5.408	1.31 hr	8.50	7.08	382.50	177.00
Tractor W-2	2.011	1.773	.42 hr	.84	.74	37.80	18.50
Equipment:							
9' offset disk	2.336	2.095	1.31 hr	3.06	2.74	137.70	68.50
12' spiketooth	.313	.246	.55 hr	.17	.14	7.65	3.50
Broadcaster (rented)	.25	.25	.22 hr	.06	.06	2.70	1.50
Materials:							
Irrigation water	.664	.702	8.0 ac"	5.31	5.62	238.95	140.50
Seed	.34	.34	25 lbs	8.50	8.50	382.50	212.50
Labor:							
Drivers	1.00	1.00	1.73 hr	1.73	1.73	77.85	43.25
Irrigators	.90	.90	3.46 hr	3.11	3.11	139.95	77.75
Soc. Sec. & Comp. Insur.				.28	.28	12.63	7.02
Contracts:							
Chisel 2X				5.50	5.50	247.50	137.50
Landplane 3X				12.00	12.00	540.00	300.00
Make borders				.75	.75	33.75	18.75
Dust (2% parathion)			12.5 lbs	2.14	2.14	96.30	53.50
Total cost				51.95	50.39	2,337.78	1,259.77
Amount charged off annually <sup>a/</sup>				12.99	12.60	584.45	314.95

<sup>a/</sup> Total cost to establish stand is depreciated over four years.



Table 55. Inputs and Costs for Producing Alfalfa on 160-3  
 1955 Yield: 7.0 Tons    1953 Yield: 7.0 Tons

Item 1	Unit cost		Units used per acre 4	Cost per acre		Total cost	
	1955 2	1953 3		1955 5	1953 6	1955 45 acres 7	1953 25 acres 8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	325.00 <sup>a</sup>	195.00 <sup>a</sup>
Office				1.52	1.52	69.93 <sup>a</sup>	39.53 <sup>a</sup>
Improvements				2.47	2.47	113.64 <sup>a</sup>	64.23 <sup>a</sup>
Power				7.55	6.01	339.75	150.25
Equipment				2.33	4.19	104.85	104.75
Irrigation water				12.79	13.88	575.55	347.00
1/4 cost to establish stand				12.99	12.60	584.45	314.94
Total overhead				46.15	47.17	2,113.17	1,215.70
<b>Operating:</b>							
Power:							
Tractor W-2	.805	.819	4.20 hr	3.38	3.44	152.10	86.00
Pickup 1955	.042		50.76 mi	2.13		95.85	
1953		.042	40.80 mi		1.71		42.75
<b>Equipment:</b>							
7' power mower	.358	.645	2.17 hr	.78	1.40	35.10	35.00
8' side delivery rake	.569	1.024	2.03 hr	1.16	2.08	52.20	52.00
<b>Materials:</b>							
Irrigation water	.442	.461	57.6 ac"	25.46	26.55	1,145.70	663.75
<b>Labor:</b>							
Drivers 1955	1.00		5.47 hr	5.47		246.15	
1953		1.00	5.22 hr		5.22		130.50
Irrigators	.90	.90	24.92 hr	22.43	22.43	1,009.35	560.75
Soc. Sec. & Comp. Insur.				1.62	1.60	72.82	40.09
<b>Contracts:</b>							
Bale	3.50	3.50	7.0 tons	24.50	24.50	1,102.50	612.50
Roadside	1.75	1.75	7.0 tons	12.25	12.25	551.25	306.25
Total operating				99.18	101.18	4,463.02	2,529.59
Total cost				145.33	148.35	6,576.19	3,745.29

<sup>a</sup>/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



Table 5. Income and Costs for Farming Activities in 1993

Unit: US\$ 1000 (US\$ 1000000)

Activity	Total Income	Total Cost	Net Income	Net Income % of Total Income	Net Income % of Total Cost
1. Crop production	1000	200	800	80%	80%
2. Livestock production	500	100	400	80%	80%
3. Fishing	100	20	80	80%	80%
4. Forestry	50	10	40	80%	80%
5. Other	10	2	8	80%	80%
Total	1660	332	1328	80%	80%

Source: Author's calculations based on data from the 1993 National Survey of Agricultural Households.

Table 56. Inputs and Costs for Producing Field Corn on 160-3  
1955 Yield: 50 cwt

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 25 acres	1953 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50		188.50a/	
Office				1.52		39.53a/	
Improvements				2.47		64.23a/	
Power				11.79		294.75	
Equipment				3.97		99.25	
Irrigation water				9.32		233.00	
Total overhead				35.57		919.26	
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.772		1.39 hr	2.46		61.50	
Tractor W-2	.805		2.27 hr	1.83		45.75	
Pickup	.042		50.76 mi	2.13		53.25	
<b>Equipment:</b>							
4' ditcher	.198		.20 hr	.04		1.00	
4' scraper	.205		.20 hr	.04		1.00	
2 way/2-16" plow	1.134		.75 hr	.85		21.25	
9' offset disk	1.267		.64 hr	.81		20.25	
4 row lister planter	1.116		.63 hr	.70		17.50	
4 row cultivator	1.705		1.24 hr	2.11		52.75	
<b>Materials:</b>							
Irrigation water	.442		42.0 ac"	18.56		464.00	
Seed	.26		10 lbs	2.60		65.00	
<b>Labor:</b>							
Drivers	1.00		4.93 hr	4.93		123.25	
Irrigators	.90		18.17 hr	16.35		408.75	
General	.90		.31 hr	.28		7.00	
Soc. Sec. & Comp. Insur.				1.25		31.26	
<b>Contracts:</b>							
Fertilize (NH <sub>3</sub> )			120 lbs	14.35		358.75	
Pick				10.00		250.00	
Shell	.125		50 cwt	6.25		156.25	
Haul	.10		50 cwt	5.00		125.00	
Dry	.175		50 cwt	8.75		218.75	
Storage	.144		50 cwt	7.20		180.00	
Insurance (\$1.50 per \$100.00 of value)			50 cwt	2.02		50.50	
Interest on operating capital				2.79		69.82	
Total operating				111.30		2,782.58	
Total cost				146.87		3,701.84	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

1945-46. Index and Guide for the 1945-46 season on the  
 1945-46 season

1945-46		1946-47		1947-48		1948-49		1949-50		1950-51		1951-52		1952-53		1953-54		1954-55		1955-56		1956-57		1957-58		1958-59		1959-60		1960-61		1961-62		1962-63		1963-64		1964-65		1965-66		1966-67		1967-68		1968-69		1969-70		1970-71		1971-72		1972-73		1973-74		1974-75		1975-76		1976-77		1977-78		1978-79		1979-80		1980-81		1981-82		1982-83		1983-84		1984-85		1985-86		1986-87		1987-88		1988-89		1989-90		1990-91		1991-92		1992-93		1993-94		1994-95		1995-96		1996-97		1997-98		1998-99		1999-00		2000-01		2001-02		2002-03		2003-04		2004-05		2005-06		2006-07		2007-08		2008-09		2009-10		2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		2035-36		2036-37		2037-38		2038-39		2039-40		2040-41		2041-42		2042-43		2043-44		2044-45		2045-46		2046-47		2047-48		2048-49		2049-50		2050-51		2051-52		2052-53		2053-54		2054-55		2055-56		2056-57		2057-58		2058-59		2059-60		2060-61		2061-62		2062-63		2063-64		2064-65		2065-66		2066-67		2067-68		2068-69		2069-70		2070-71		2071-72		2072-73		2073-74		2074-75		2075-76		2076-77		2077-78		2078-79		2079-80		2080-81		2081-82		2082-83		2083-84		2084-85		2085-86		2086-87		2087-88		2088-89		2089-90		2090-91		2091-92		2092-93		2093-94		2094-95		2095-96		2096-97		2097-98		2098-99		2099-00		2100-01		2101-02		2102-03		2103-04		2104-05		2105-06		2106-07		2107-08		2108-09		2109-10		2110-11		2111-12		2112-13		2113-14		2114-15		2115-16		2116-17		2117-18		2118-19		2119-20		2120-21		2121-22		2122-23		2123-24		2124-25		2125-26		2126-27		2127-28		2128-29		2129-30		2130-31		2131-32		2132-33		2133-34		2134-35		2135-36		2136-37		2137-38		2138-39		2139-40		2140-41		2141-42		2142-43		2143-44		2144-45		2145-46		2146-47		2147-48		2148-49		2149-50		2150-51		2151-52		2152-53		2153-54		2154-55		2155-56		2156-57		2157-58		2158-59		2159-60		2160-61		2161-62		2162-63		2163-64		2164-65		2165-66		2166-67		2167-68		2168-69		2169-70		2170-71		2171-72		2172-73		2173-74		2174-75		2175-76		2176-77		2177-78		2178-79		2179-80		2180-81		2181-82		2182-83		2183-84		2184-85		2185-86		2186-87		2187-88		2188-89		2189-90		2190-91		2191-92		2192-93		2193-94		2194-95		2195-96		2196-97		2197-98		2198-99		2199-00		2200-01		2201-02		2202-03		2203-04		2204-05		2205-06		2206-07		2207-08		2208-09		2209-10		2210-11		2211-12		2212-13		2213-14		2214-15		2215-16		2216-17		2217-18		2218-19		2219-20		2220-21		2221-22		2222-23		2223-24		2224-25		2225-26		2226-27		2227-28		2228-29		2229-30		2230-31		2231-32		2232-33		2233-34		2234-35		2235-36		2236-37		2237-38		2238-39		2239-40		2240-41		2241-42		2242-43		2243-44		2244-45		2245-46		2246-47		2247-48		2248-49		2249-50		2250-51		2251-52		2252-53		2253-54		2254-55		2255-56		2256-57		2257-58		2258-59		2259-60		2260-61		2261-62		2262-63		2263-64		2264-65		2265-66		2266-67		2267-68		2268-69		2269-70		2270-71		2271-72		2272-73		2273-74		2274-75		2275-76		2276-77		2277-78		2278-79		2279-80		2280-81		2281-82		2282-83		2283-84		2284-85		2285-86		2286-87		2287-88		2288-89		2289-90		2290-91		2291-92		2292-93		2293-94		2294-95		2295-96		2296-97		2297-98		2298-99		2299-00		2300-01		2301-02		2302-03		2303-04		2304-05		2305-06		2306-07		2307-08		2308-09		2309-10		2310-11		2311-12		2312-13		2313-14		2314-15		2315-16		2316-17		2317-18		2318-19		2319-20		2320-21		2321-22		2322-23		2323-24		2324-25		2325-26		2326-27		2327-28		2328-29		2329-30		2330-31		2331-32		2332-33		2333-34		2334-35		2335-36		2336-37		2337-38		2338-39		2339-40		2340-41		2341-42		2342-43		2343-44		2344-45		2345-46		2346-47		2347-48		2348-49		2349-50		2350-51		2351-52		2352-53		2353-54		2354-55		2355-56		2356-57		2357-58		2358-59		2359-60		2360-61		2361-62		2362-63		2363-64		2364-65		2365-66		2366-67		2367-68		2368-69		2369-70		2370-71		2371-72		2372-73		2373-74		2374-75		2375-76		2376-77		2377-78		2378-79		2379-80		2380-81		2381-82		2382-83		2383-84		2384-85		2385-86		2386-87		2387-88		2388-89		2389-90		2390-91		2391-92		2392-93		2393-94		2394-95		2395-96		2396-97		2397-98		2398-99		2399-00		2400-01		2401-02		2402-03		2403-04		2404-05		2405-06		2406-07		2407-08		2408-09		2409-10		2410-11		2411-12		2412-13		2413-14		2414-15		2415-16		2416-17		2417-18		2418-19		2419-20		2420-21		2421-22		2422-23		2423-24		2424-25		2425-26		2426-27		2427-28		2428-29		2429-30		2430-31		2431-32		2432-33		2433-34		2434-35		2435-36		2436-37		2437-38		2438-39		2439-40		2440-41		2441-42		2442-43		2443-44		2444-45		2445-46		2446-47		2447-48		2448-49		2449-50		2450-51		2451-52		2452-53		2453-54		2454-55		2455-56		2456-57		2457-58		2458-59		2459-60		2460-61		2461-62		2462-63		2463-64		2464-65		2465-66		2466-67		2467-68		2468-69		2469-70		2470-71		2471-72		2472-73		2473-74		2474-75		2475-76		2476-77		2477-78		2478-79		2479-80		2480-81		2481-82		2482-83		2483-84		2484-85		2485-86		2486-87		2487-88		2488-89		2489-90		2490-91		2491-92		2492-93		2493-94		2494-95		2495-96		2496-97		2497-98		2498-99		2499-00		2500-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Table 57. Inputs and Costs for Producing Cotton on 160-3  
 1955 Yield: 2.5 Bales 1953 Yield: 2.1 Bales

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 55 acres	1953 100 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	390.00a/	682.50a/
Office				1.52	1.52	88.17a/	153.54a/
Improvements				2.47	2.47	143.28a/	249.51a/
Power				21.16	17.03	1,163.80	1,703.00
Equipment				43.69	25.24	2,402.95	2,524.00
Irrigation water				9.32	9.40	512.60	940.00
Total overhead				84.66	62.16	4,700.80	6,252.55
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.772	1.542	1.64 hr	2.91	2.53	160.05	253.00
Tractor W-2	.805	.819	7.01 hr	5.64	5.74	310.20	574.00
Pickup 1955	.042		101.53 mi	4.26		234.30	
1953		.042	81.630mi		3.43		343.00
<b>Equipment:</b>							
4' ditcher	.198	.150	.25 hr	.05	.04	2.75	4.00
4' scraper	.205	.155	.25 hr	.05	.04	2.75	4.00
2 way/2-16" plow	1.134	.917	.75 hr	.85	.69	46.75	69.00
9' offset disk	1.267	1.136	.64 hr	.81	.73	44.55	73.00
12' spiketooth harrow	.055	.044	.20 hr	.01	.01	.55	1.00
12' cultipacker	3.455	1.900	.20 hr	.69	.38	37.95	38.00
4 row lister planter	1.116	.902	.61 hr	.68	.55	37.40	55.00
2 row cultivator	.996	.593	1.00 hr	1.00	.59	55.00	59.00
4 row cultivator	1.705	1.274	2.07 hr	3.53	2.64	194.15	264.00
1 row cotton picker	4.758	2.617	5.56 hr	26.45	14.55	1,454.75	1,455.00
5 bale cotton trailer	.582	.320	1.50 hr	.87	.48	47.85	48.00
2 row stalk cutter	.591	.325	.50 hr	.30	.16	16.50	16.00
<b>Materials:</b>							
Irrigation water 1955	.442		42 ac"	18.56		1,020.80	
1953		.461	39 ac"		17.98		1,798.00
Seed (acid delint)	.115	.115	18 lb	2.07	2.07	113.85	207.00
<b>Labor:</b>							
Drivers 1955	1.00		12.73 hr	12.73		700.15	
1953		1.00	11.98 hr		11.98		1,198.00
Irrigator 1955	.90		18.17 hr	16.35		899.25	
1953		.90	16.88 hr		15.19		1,519.00
General	.90	.90	3.08 hr	2.78	2.78	152.90	278.00
Soc. Ser. & Comp. Ins.				1.85	1.74	101.63	173.71
<b>Contracts:</b>							
Gypsum	4.00	4.00	5 ton	20.00	20.00	1,100.00	2,000.00
Fertilize (NH <sub>3</sub> ) 1955			120 lbs	14.10		775.50	
(NH <sub>3</sub> ) 1953			100 lbs		11.75		1,175.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.10	8.10	445.50	810.00
Hand thin				5.00	5.00	275.00	500.00
Hand weed				5.00	5.00	275.00	500.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg)			10 lbs	4.25	4.25	233.75	425.00
Gin 1955	14.70		2.5 bale	36.75		2,021.25	
1953		14.70	2.1 bale		30.87		3,087.00
Insur. & storage 1955	1.19		2.5 bale	2.98		163.90	
1953		1.19	2.1 bale		2.50		250.00
Interest on operating capital				4.10	3.55	225.27	354.52
Total operating				202.72	175.32	11,149.25	17,531.23
Total cost				287.38	237.48	15,850.05	23,783.78

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.





Table 58. Inputs and Costs for Producing Potatoes on 160-3

1955 Yield: 290 cwt      1953 Yield: 290 cwt

Item	Unit cost		Units used per acre	Cost per acre		Total cost	
	1955	1953		1955	1953	1955 17 acres	1953 20 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	136.50a/	162.50a/
Office				1.52	1.52	27.37a/	31.93a/
Improvements				2.47	2.47	44.47a/	51.88a/
Power				16.17	13.12	274.89	262.40
Equipment				8.06	6.71	137.02	134.20
Irrigation water				7.99	8.68	135.83	173.60
Total overhead				42.71	39.00	756.08	816.51
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.772	1.542	2.19 hr	3.88	3.38	65.96	67.60
Tractor W-2	.805	.819	2.78 hr	2.24	2.24	38.08	45.60
Pickup 1955	.042		50.76 mi	2.13		36.21	
1953		.042	40.85 mi		1.72		34.40
<b>Equipment:</b>							
4' ditcher	.198	.150	.10 hr	.02	.02	.34	.40
4' scraper	.205	.155	.10 hr	.02	.02	.34	.40
2 way/2-16" plow	1.134	.917	.75 hr	.85	.69	14.45	13.80
9' offset disk	1.267	1.136	1.34 hr	1.70	1.52	28.90	30.40
12' spiketooth harrow	.055	.044	.90 hr	.05	.04	.85	.80
2 row cultivator	.996	.593	.90 hr	.90	.53	15.30	10.60
2 row potato planter	3.217	2.735	1.28 hr	4.12	3.50	70.04	70.00
6' steel roller	1.961	1.667	.30 hr	.59	.50	10.03	10.00
<b>Materials:</b>							
Irrigation water	.442	.461	36 ac"	15.91	16.60	270.47	332.00
Seed	6.30	6.30	16 cwt	100.80	100.80	1,713.60	2,016.00
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	510.00	600.00
<b>Labor:</b>							
Drivers 1955	1.00		6.24 hr	6.24		106.08	
1953		1.00	5.99 hr		5.99		119.80
Irrigator	.90	.90	15.58 hr	14.02	14.02	238.34	280.40
General	.90	.90	1.28 hr	1.15	1.15	19.55	23.00
Soc. Sec. & Comp. Insur.				1.24	1.23	21.08	24.60
<b>Contracts:</b>							
Dust (5%DDT-50% sulfur)			30 lbs	4.05	4.05	68.85	81.00
Rotobeat				3.00	3.00	51.00	60.00
Dig				12.00	12.00	204.00	240.00
Pick	.16	.16	360 cwt	57.60	57.60	979.20	1,152.00
Paul	.075	.075	360 cwt	27.00	27.00	459.00	540.00
Shed costs	.55	.55	290 cwt	159.50	159.50	2,711.50	3,190.00
Interest on operating capital				5.05	5.01	85.87	100.13
Total operating				454.06	452.15	7,719.04	9,042.93
Total cost				496.77	491.15	8,475.12	9,859.44

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



STATE OF NEW YORK  
 DEPARTMENT OF TAXATION  
 TAX RETURN FOR THE YEAR 1934

NAME OF TAXPAYER	RESIDENCE	GROSS INCOME		DEDUCTIONS	NET INCOME	TAX	REMARKS
		FROM ALL SOURCES	FROM REAL ESTATE				
JOHN J. SMITH	123 Main St., New York City	10,000.00	5,000.00	1,000.00	14,000.00	1,200.00	
MRS. J. SMITH	123 Main St., New York City	2,000.00	1,000.00	200.00	2,800.00	240.00	
JOHN A. BROWN	456 Park Ave., New York City	15,000.00	7,500.00	1,500.00	21,000.00	1,800.00	
MRS. A. BROWN	456 Park Ave., New York City	3,000.00	1,500.00	300.00	4,200.00	360.00	
JOHN D. GREEN	789 Broadway, New York City	8,000.00	4,000.00	800.00	11,200.00	960.00	
MRS. D. GREEN	789 Broadway, New York City	1,500.00	750.00	150.00	2,100.00	180.00	
JOHN E. WHITE	1010 Fifth Ave., New York City	12,000.00	6,000.00	1,200.00	16,800.00	1,440.00	
MRS. E. WHITE	1010 Fifth Ave., New York City	2,500.00	1,250.00	250.00	3,500.00	300.00	
JOHN F. BLACK	1111 Third St., New York City	9,000.00	4,500.00	900.00	12,600.00	1,080.00	
MRS. F. BLACK	1111 Third St., New York City	1,800.00	900.00	180.00	2,520.00	216.00	
JOHN G. GRAY	1212 Second St., New York City	11,000.00	5,500.00	1,100.00	15,400.00	1,320.00	
MRS. G. GRAY	1212 Second St., New York City	2,200.00	1,100.00	220.00	3,080.00	264.00	
JOHN H. HARRIS	1313 First St., New York City	13,000.00	6,500.00	1,300.00	18,200.00	1,560.00	
MRS. H. HARRIS	1313 First St., New York City	2,600.00	1,300.00	260.00	3,640.00	312.00	
JOHN I. JONES	1414 West St., New York City	14,000.00	7,000.00	1,400.00	19,600.00	1,680.00	
MRS. I. JONES	1414 West St., New York City	2,800.00	1,400.00	280.00	3,920.00	336.00	
JOHN K. KELLY	1515 East St., New York City	16,000.00	8,000.00	1,600.00	22,400.00	1,920.00	
MRS. K. KELLY	1515 East St., New York City	3,200.00	1,600.00	320.00	4,480.00	384.00	
JOHN L. LEWIS	1616 North St., New York City	17,000.00	8,500.00	1,700.00	23,800.00	2,016.00	
MRS. L. LEWIS	1616 North St., New York City	3,400.00	1,700.00	340.00	4,760.00	408.00	
JOHN M. MILLER	1717 South St., New York City	18,000.00	9,000.00	1,800.00	25,200.00	2,160.00	
MRS. M. MILLER	1717 South St., New York City	3,600.00	1,800.00	360.00	5,040.00	432.00	
JOHN N. NELSON	1818 Central St., New York City	19,000.00	9,500.00	1,900.00	26,600.00	2,280.00	
MRS. N. NELSON	1818 Central St., New York City	3,800.00	1,900.00	380.00	5,320.00	456.00	
JOHN O. OLIVER	1919 Union St., New York City	20,000.00	10,000.00	2,000.00	28,000.00	2,400.00	
MRS. O. OLIVER	1919 Union St., New York City	4,000.00	2,000.00	400.00	5,600.00	480.00	
JOHN P. PETERSON	2020 Madison St., New York City	21,000.00	10,500.00	2,100.00	29,400.00	2,520.00	
MRS. P. PETERSON	2020 Madison St., New York City	4,200.00	2,100.00	420.00	6,120.00	528.00	
JOHN Q. QUINN	2121 Park St., New York City	22,000.00	11,000.00	2,200.00	30,800.00	2,640.00	
MRS. Q. QUINN	2121 Park St., New York City	4,400.00	2,200.00	440.00	6,360.00	548.00	
JOHN R. ROBERTS	2222 Lexington St., New York City	23,000.00	11,500.00	2,300.00	32,200.00	2,760.00	
MRS. R. ROBERTS	2222 Lexington St., New York City	4,600.00	2,300.00	460.00	6,440.00	558.00	
JOHN S. SCHMIDT	2323 Broadway, New York City	24,000.00	12,000.00	2,400.00	33,600.00	2,880.00	
MRS. S. SCHMIDT	2323 Broadway, New York City	4,800.00	2,400.00	480.00	6,720.00	576.00	
JOHN T. THOMPSON	2424 Fifth Ave., New York City	25,000.00	12,500.00	2,500.00	35,000.00	3,000.00	
MRS. T. THOMPSON	2424 Fifth Ave., New York City	5,000.00	2,500.00	500.00	7,000.00	600.00	
JOHN U. UNDERHILL	2525 Third St., New York City	26,000.00	13,000.00	2,600.00	36,400.00	3,120.00	
MRS. U. UNDERHILL	2525 Third St., New York City	5,200.00	2,600.00	520.00	7,280.00	624.00	
JOHN V. VANCE	2626 Second St., New York City	27,000.00	13,500.00	2,700.00	37,800.00	3,240.00	
MRS. V. VANCE	2626 Second St., New York City	5,400.00	2,700.00	540.00	7,560.00	648.00	
JOHN W. WALKER	2727 First St., New York City	28,000.00	14,000.00	2,800.00	39,200.00	3,360.00	
MRS. W. WALKER	2727 First St., New York City	5,600.00	2,800.00	560.00	7,840.00	672.00	
JOHN X. XENOPHON	2828 Central St., New York City	29,000.00	14,500.00	2,900.00	40,600.00	3,480.00	
MRS. X. XENOPHON	2828 Central St., New York City	5,800.00	2,900.00	580.00	8,120.00	696.00	
JOHN Y. YOUNG	2929 Union St., New York City	30,000.00	15,000.00	3,000.00	42,000.00	3,600.00	
MRS. Y. YOUNG	2929 Union St., New York City	6,000.00	3,000.00	600.00	8,400.00	720.00	
JOHN Z. ZEPHYRUS	3030 Madison St., New York City	31,000.00	15,500.00	3,100.00	43,400.00	3,720.00	
MRS. Z. ZEPHYRUS	3030 Madison St., New York City	6,200.00	3,100.00	620.00	8,680.00	744.00	
TOTAL		1,000,000.00	500,000.00	100,000.00	1,400,000.00	120,000.00	

By Taxpayer or Agent: \_\_\_\_\_  
 State of New York: \_\_\_\_\_  
 Date: \_\_\_\_\_

Table 59. Crops and Land Use on Typical 320 Acre Farms, 1953-1955; 320-1, Cotton-Barley  
320-2, Cotton-Alfalfa-Potatoes, 320-3, Cotton-Potatoes, in Upper San Joaquin Valley

Year	Cotton	Alfalfa Seed	Alfalfa	Potatoes	Field Corn	Barley	Milo	Idle or Fallow	Double Crop	Total Crop- land	Non Culti- vated	Total Land
1	2	3	4	5	6	7	8	9	10	11	12	13
320-1												
1953	216	--	--	--	--	50	--	34	--	300	20	320
1954	143	40	--	--	--	65	--	52	--	300	20	320
1955	119	60	--	--	--	70	--	51	--	300	20	320
Changes												
1953 to 1954	-73	+40	--	--	--	+15	--	+18	--	--	--	--
1954 to 1955	-24	+20	--	--	--	+ 5	--	- 1	--	--	--	--
1953 to 1955	-97	+60	--	--	--	+20	--	+17	--	--	--	--
320-2												
1953	216	--	60	24	--	--	--	--	--	300	20	320
1954	143	--	65	20	60	--	--	12	--	300	20	320
1955	119	--	70	22	55	--	--	34	--	300	20	320
Changes												
1953 to 1954	-73	--	+ 5	- 4	+60	--	--	+12	--	--	--	--
1954 to 1955	-24	--	+ 5	+ 2	- 5	--	--	+22	--	--	--	--
1953 to 1955	-97	--	+10	- 2	+55	--	--	+34	--	--	--	--
320-3												
1953	216	--	--	70	--	--	--	14	--	300	20	320
1954	143	--	--	50	--	103	50	4	50	300	20	320
1955	119	--	21	62	--	90	55	8	55	300	20	320
Changes												
1953 to 1954	-73	--	--	-20	--	+103	+50	-10	+50	--	--	--
1954 to 1955	-24	--	+21	+12	--	- 13	+ 5	+ 4	+ 5	--	--	--
1953 to 1955	-97	--	+21	- 8	--	+ 90	+55	- 6	+55	--	--	--





Table 60. Physical Resources and Investments for Typical 320-Acre Farms  
(320-1, 320-2, 320-3) in Upper San Joaquin Valley  
1955 Prices a/

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Land:						
Total farm	320 acres					
Total cultivated	300 acres					
Improvements:						
Tenant houses	2 bedroom			\$3,000.00		\$ 1,500.00
Tractor shed		1		1,500.00		750.00
Shop		1		2,500.00		1,250.00
Fuel storage-gas	550 gal.	1		135.00		67.50
Fuel storage-diesel	550 gal.	1		135.00		67.50
Subtotal				7,270.00		3,635.00
Irrigation facilities:						
Pumping plant (75 HP)	1200 gpm	3	5,400.00	16,200.00	2,770.00	8,310.00
Well casing (180' lift)	14" diam.	3x500'	7.40	11,100.00	3.70	5,550.00
Subtotal				27,300.00		13,860.00
Distribution system:						
Reservoir	5.0 ac.ft.	1		100.00		50.00
Pipe	14 in.	10,560'	.90	9,504.00	.45	4,752.00
Stands	5'-36"	5	9.00	225.00	4.50	112.50
Vents	5'-6"	10	.75	37.50	.38	18.75
Alfalfa valves	10 in.	150	15.00	2,250.00	7.50	1,125.00
Siphons	1-1/2 in.	200	1.27	254.00	.64	127.00
	2 in.	200	1.44	288.00	.72	144.00
	3 in.	50	1.90	95.00	.95	47.50
Rowpipe	2 in.	500	1.50	750.00	.75	375.00
Subtotal				13,503.50		6,751.75
Power:						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel	W-1	1		2,600.00		1,820.00
	W-2	2	3,000.00	6,000.00	2,100.00	4,200.00
Subtotal				15,600.00		9,870.00
Transportation:						
Pickup	3/4 ton	1		2,300.00		1,380.00
Truck	1 1/2 ton	1		2,800.00		1,470.00
Subtotal				5,100.00		2,850.00
Equipment:						
Ditcher	5 ft.	1		140.00		70.00
Scraper	10 ft.	1		520.00		260.00
Plow, 2 way	2-16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	7'	1		550.00		275.00

(Continued on next page.)

(continued on next page)

Table 60 continued.

Item and description	Size or Capacity	Amount	New Cost		Investment	
			Per Unit	Total	Per Unit	Total
1	2	3	4	5	6	7
Equipment (continued):						
Disk, offset	10 1/2'	1		900.00		450.00
Border disk		1		175.00		87.50
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	12'	1		380.00		190.00
Lister	4 row	1		350.00		175.00
Lister planter	4 row	1		550.00		275.00
Cultivator	2 row	2	350.00	700.00	175.00	350.00
Cultivator	4 row	1		1,000.00		500.00
Fertilizer attachment	4 row	1		100.00		50.00
Cotton picker	1 row	1		8,700.00		5,220.00
Cotton trailer	4 bale	2	350.00	700.00	192.50	385.00
Cotton trailer	6 bale	3	450.00	1,350.00	247.33	742.00
Stalk cutter	2 row	1		325.00		167.50
Broadcaster		1		250.00		125.00
Additional equipment:						
320-1 only						
Springtooth harrow	12'	1		240.00		120.00
320-2 & 320-3 only						
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Potato planter	2 row	1		700.00		350.00
Steel roller	6'	1		200.00		100.00
Equipment 320-1				18,095.00		10,024.50
Equipment 320-2				19,625.00		10,789.50
Equipment 320-3				19,625.00		10,789.50
Total 320-1				86,868.50		46,991.25
Total 320-2				88,398.50		47,756.25
Total 320-3				88,398.50		47,756.25

a/ The designations 320-1, 320-2, 320-3 refer to three variations found in the 320 acre size group.



State	County	City	Year	Population	Total population
Alabama	Baldwin	Birmingham	1950	100,000	100,000
Alabama	Baldwin	Birmingham	1951	100,000	100,000
Alabama	Baldwin	Birmingham	1952	100,000	100,000
Alabama	Baldwin	Birmingham	1953	100,000	100,000
Alabama	Baldwin	Birmingham	1954	100,000	100,000
Alabama	Baldwin	Birmingham	1955	100,000	100,000
Alabama	Baldwin	Birmingham	1956	100,000	100,000
Alabama	Baldwin	Birmingham	1957	100,000	100,000
Alabama	Baldwin	Birmingham	1958	100,000	100,000
Alabama	Baldwin	Birmingham	1959	100,000	100,000
Alabama	Baldwin	Birmingham	1960	100,000	100,000
Alabama	Baldwin	Birmingham	1961	100,000	100,000
Alabama	Baldwin	Birmingham	1962	100,000	100,000
Alabama	Baldwin	Birmingham	1963	100,000	100,000
Alabama	Baldwin	Birmingham	1964	100,000	100,000
Alabama	Baldwin	Birmingham	1965	100,000	100,000
Alabama	Baldwin	Birmingham	1966	100,000	100,000
Alabama	Baldwin	Birmingham	1967	100,000	100,000
Alabama	Baldwin	Birmingham	1968	100,000	100,000
Alabama	Baldwin	Birmingham	1969	100,000	100,000
Alabama	Baldwin	Birmingham	1970	100,000	100,000

Source: U.S. Census Bureau, "Population of the United States, 1950-1970," Current Population Reports, Series P-23, No. 100, Washington, D.C., 1971.

Table 61. Calendar of Operations & Physical Inputs Per Acre to Establish an Alfalfa Stand on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
2/1 - 3/15	Disk 2X	1	T-5D	10½' offset disk	30	.60	.60	
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	10½' offset disk	30	.30	.30	
	Pre-irrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	10½' offset W/12' spike	28	.32	.32	
	Seed	1	W-1	Broadcaster	40	.22	.22	25# seed
	Harrow	1	W-2	12' Spiketooth harrow	45	.20	.20	
	Dust - contract							12.5# 2% parathion





Table 62. Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa on 320 Acre Farms

Dates	Operations	Crew & Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man-hours	Tractor hours	Material
4/5 - 4/15	Irrigation							5.6 ac. in.
	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
5/5 - 5/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 2nd*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
6/5 - 6/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
7/5 - 7/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
8/5 - 8/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
9/5 - 9/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
10/5 - 10/15	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						8 ac. in.
	Cut 7th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S.D. Rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate							4 ac. in.

\* No cutting for first year of stand

1. 1941-1942  
2. 1943-1944  
3. 1945-1946  
4. 1947-1948  
5. 1949-1950  
6. 1951-1952  
7. 1953-1954  
8. 1955-1956  
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Table 63. Calendar of Operations & Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
2/1 - 2/20 3/1 - 3/20	Disk 2X	1	T-5D	10 $\frac{1}{2}$ ' offset disk	30	.60	.60	8 ac. in.
	Chisel	1	T-5D	8' chisel	16	.56	.56	
	Disk	1	T-5D	10 $\frac{1}{2}$ ' offset disk	30	.30	.30	
	Landplane 2X - contract							
	Furrow out	1	W-2	4 row lister	36	.25	.25	
	Make head ditches	1	T-5D	5' ditcher		.05	.05	
	Preirrigate							1 $\frac{1}{2}$ # seed 12 $\frac{1}{2}$ # 2% parathion
	Fill in ditches	1	T-5D	10' scraper		.05	.05	
	Disk	1	T-5D	10 $\frac{1}{2}$ ' offset disk	30	.30	.30	
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Plant	2	W-2	4 row lister planter	29	.62	.31	
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20	
	Dust - Contract							



Date		Description		Amount	
1914	Jan 1	Balance		100.00	
	Jan 5	John Smith		50.00	
	Jan 10	John Smith		25.00	
	Jan 15	John Smith		10.00	
	Jan 20	John Smith		5.00	
	Jan 25	John Smith		2.50	
	Jan 30	John Smith		1.25	
	Feb 1	John Smith		0.62	
	Feb 5	John Smith		0.31	
	Feb 10	John Smith		0.16	
	Feb 15	John Smith		0.08	
	Feb 20	John Smith		0.04	
	Feb 25	John Smith		0.02	
	Feb 30	John Smith		0.01	
	Mar 1	John Smith		0.00	
	Mar 5	John Smith		0.00	
	Mar 10	John Smith		0.00	
	Mar 15	John Smith		0.00	
	Mar 20	John Smith		0.00	
	Mar 25	John Smith		0.00	
	Mar 30	John Smith		0.00	
	Apr 1	John Smith		0.00	
	Apr 5	John Smith		0.00	
	Apr 10	John Smith		0.00	
	Apr 15	John Smith		0.00	
	Apr 20	John Smith		0.00	
	Apr 25	John Smith		0.00	
	Apr 30	John Smith		0.00	
	May 1	John Smith		0.00	
	May 5	John Smith		0.00	
	May 10	John Smith		0.00	
	May 15	John Smith		0.00	
	May 20	John Smith		0.00	
	May 25	John Smith		0.00	
	May 30	John Smith		0.00	
	Jun 1	John Smith		0.00	
	Jun 5	John Smith		0.00	
	Jun 10	John Smith		0.00	
	Jun 15	John Smith		0.00	
	Jun 20	John Smith		0.00	
	Jun 25	John Smith		0.00	
	Jun 30	John Smith		0.00	
	Jul 1	John Smith		0.00	
	Jul 5	John Smith		0.00	
	Jul 10	John Smith		0.00	
	Jul 15	John Smith		0.00	
	Jul 20	John Smith		0.00	
	Jul 25	John Smith		0.00	
	Jul 30	John Smith		0.00	
	Aug 1	John Smith		0.00	
	Aug 5	John Smith		0.00	
	Aug 10	John Smith		0.00	
	Aug 15	John Smith		0.00	
	Aug 20	John Smith		0.00	
	Aug 25	John Smith		0.00	
	Aug 30	John Smith		0.00	
	Sep 1	John Smith		0.00	
	Sep 5	John Smith		0.00	
	Sep 10	John Smith		0.00	
	Sep 15	John Smith		0.00	
	Sep 20	John Smith		0.00	
	Sep 25	John Smith		0.00	
	Sep 30	John Smith		0.00	
	Oct 1	John Smith		0.00	
	Oct 5	John Smith		0.00	
	Oct 10	John Smith		0.00	
	Oct 15	John Smith		0.00	
	Oct 20	John Smith		0.00	
	Oct 25	John Smith		0.00	
	Oct 30	John Smith		0.00	
	Nov 1	John Smith		0.00	
	Nov 5	John Smith		0.00	
	Nov 10	John Smith		0.00	
	Nov 15	John Smith		0.00	
	Nov 20	John Smith		0.00	
	Nov 25	John Smith		0.00	
	Nov 30	John Smith		0.00	
	Dec 1	John Smith		0.00	
	Dec 5	John Smith		0.00	
	Dec 10	John Smith		0.00	
	Dec 15	John Smith		0.00	
	Dec 20	John Smith		0.00	
	Dec 25	John Smith		0.00	
	Dec 30	John Smith		0.00	
	Jan 1	John Smith		0.00	

Table 64. Calendar of Operations & Physical Inputs Per Acre for Producing Alfalfa Seed on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Materials
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	300# super phosphate 3 colonies 10 ac. in.
5/1 - 5/10	Fertilize - contract							
	Bees - contract							
4/20 - 5/10	Irrigate	1						
5/10 - 5/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	10 ac. in. 60# 5% DDT-75%S
6/1 - 6/10	Irrigate	1						
	Dust 2X - contract							
6/10 - 6/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	10 ac. in.
6/10 - 6/20	Weed - contract							
7/1 - 7/10	Irrigate	1						
7/10 - 7/20	Cultivate	1	W-2	4 row cultivator	24	.38	.38	1 qt. Sinox in 10 gal. Diesel Oil
8/15 - 8/25	Defoliate - contract							
8/20 - 8/30	Harvest - contract							
9/1 - 9/10	Disk	1	W-2	7' offset disk	24	.38	.38	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth	45	.40	.40	





Table 65. Calendar of Operations & Physical Inputs Per Acre for Producing Barley on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
12/10 - 1/10	Disk 2X (Harrow on 2nd time)	1	T-5D	10 $\frac{1}{2}$ ' offset w/12' spike	28	.64	.64	80# seed
12/20 - 1/20	Seed	1	W-1	Broadcaster	40	.22	.22	
12/20 - 1/20	Harrow	1	W-1	12' Spiketooth harrow	40	.22	.22	
12/22 - 1/22	Border up	1	W-2	Border disk	40	.22	.22	
2/1 - 5/1	Irrigate 3X	1						14.4 ac. in.
6/1 - 7/1	Harvest - contract							
6/1 - 7/1	Haul - contract							



Table 66. Calendar of Operations & Physical Inputs Per Acre for Producing Field Corn on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
3/20 - 4/15	Flow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	10½' offset disk	30	.30	.30	
	Furrow out	1	W-1	4 row lister	34	.26	.26	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate							6 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.20	.20	
	Plant	2	W-2	4 row lister planter	29	.62	.31	10# seed
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Irrigate							4 ac. in.
	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate and Fertilize	1	W-2	4 row cultivator w/4 row fertilizer attachment	20	.45	.45	475# NH <sub>4</sub> SO <sub>4</sub>
9/20 - 10/15	Irrigate 2X							8 ac. in.
	Cultivate	1	W-2	4 row cultivator	24	.38	.38	
	Irrigate 6X							24 ac. in.
	Pick & Haul - contract							
	Shell - contract							

\* occurs 4X - man-hours and tractor-hours are total for season



2. Results of the investigation of the above-mentioned cases are as follows:

Case No.	Date	Description of Case	No. of Cases	No. of Deaths	No. of Recoveries	No. of Discharges	No. of Deaths	No. of Recoveries	No. of Discharges
1	1918	Low cost hospital	100	10	80	10	10	80	10
2	1918	Low cost hospital	100	10	80	10	10	80	10
3	1918	Low cost hospital	100	10	80	10	10	80	10
4	1918	Low cost hospital	100	10	80	10	10	80	10
5	1918	Low cost hospital	100	10	80	10	10	80	10
6	1918	Low cost hospital	100	10	80	10	10	80	10
7	1918	Low cost hospital	100	10	80	10	10	80	10
8	1918	Low cost hospital	100	10	80	10	10	80	10
9	1918	Low cost hospital	100	10	80	10	10	80	10
10	1918	Low cost hospital	100	10	80	10	10	80	10
11	1918	Low cost hospital	100	10	80	10	10	80	10
12	1918	Low cost hospital	100	10	80	10	10	80	10
13	1918	Low cost hospital	100	10	80	10	10	80	10
14	1918	Low cost hospital	100	10	80	10	10	80	10
15	1918	Low cost hospital	100	10	80	10	10	80	10
16	1918	Low cost hospital	100	10	80	10	10	80	10
17	1918	Low cost hospital	100	10	80	10	10	80	10
18	1918	Low cost hospital	100	10	80	10	10	80	10
19	1918	Low cost hospital	100	10	80	10	10	80	10
20	1918	Low cost hospital	100	10	80	10	10	80	10

These results show that the above-mentioned cases are of the same type and that the results are similar.

Table 67. Calendar of Operations &amp; Physical Inputs Per Acre for Producing Cotton on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
4/1 - 4/15	Cut stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	10½' offset disk	30	.60	.60		
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12		
	Disk	1	T-5D	10½' offset disk	30	.30	.30		
	Fertilize - contract							55# NH <sub>3</sub>	70# NH <sub>3</sub>
	Furrow out	1	W-2	4 row lister	36	.25	.25		
	Make head ditches*	1	T-5D	5' ditcher		.25	.25		
	Preirrigate	1						5 ac.in.	6 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.25	.25		
	Harrow	1	W-2	12' spiketooth harrow	45	.20	.20		
4/25 - 5/5	Plant	2	W-2	4 row lister planter	29	.62	.31	18# acid delinted seed	
	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - contract								
	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41		
	Cultivate & Fertilize (3)	1	W-2	4 row cultivator w/4 row fertilizer attachment	22	.41	.41	225# NH <sub>4</sub> SO <sub>4</sub>	275# NH <sub>4</sub> SO <sub>4</sub>
	Irrigate (1)	1						3 ac.in.	4 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-2	4 row cultivator	28	.32	.32		
	Irrigate (2)	1						3 ac.in.	4 ac.in.
6/15 - 8/15	Cultivate (5)	1	W-2	4 row cultivator	28	.32	.32		
	Dust 2X - contract							60# 5% DDT - 50% S	
	Irrigate (3)	1						4 ac.in.	4 ac.in.
7/1 - 7/15	Cultivate & lay by (6)	1	W-2	4 row cultivator	28	.32	.32		
7/1 - 9/15	Irrigate 6X (4-9)	1						24 ac.in.	24 ac.in.
9/5 - 9/20	Defoliate - contract							10# of NaClO <sub>3</sub> w/Borate or Mg.	
9/15 - on	Pick 1st - machine	2	W-2	1 row cotton picker	6	3.00	1.50		
11/15 - on	Pick 2nd - machine	2	W-2	1 row cotton picker	7	2.56	1.28		
9/15 - on	Haul to gin	1	Pick- up	6 bale cotton trailer	6	1.50	1.50		
	Gin - contract								

\* occurs 5X - man-hours and tractor-hours are total for season





Table 68. Calendar of Operations &amp; Physical Inputs Per Acre for Producing Milo on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
6/15 - 7/15	Disk 2X	1	T-5D	10½' offset disk	30	.60	.60	6 ac. in.
	Furrow out	1	W-2	4 row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate	1						
	Fill in ditches*	1	T-5D	10' scraper		.20	.20	
	Disk w/cultipacker attached	1	T-5D	10½' offset w/12' cultipacker	28	.32	.32	
	Plant	2	W-2	4 row lister-planter	30	.60	.30	10# seed
	Irrigate							5 ac. in.
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	4 ac. in.
	Irrigate	1						
7/15 - 8/15	Cultivate	1	W-2	4 row cultivator	28	.32	.32	
7/25 - 9/15	Irrigate 3X	1						12 ac. in.
11/1 - 12/1	Harvest - contract							
11/1 - 12/1	Haul - contract							

\* occurs 4X - man-hours and tractor-hours are total for seasons



Table 69. Calendar of Operations &amp; Physical Inputs Per Acre for Producing Potatoes on 320 Acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1/5 - 2/15	Disk 2X	1	T-5D	10 $\frac{1}{2}$ ' offset disk	30	.60	.60	16 cwt. 800# 17-7-0
	Flow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk 2X	1	T-5D	10 $\frac{1}{2}$ ' offset disk	30	.60	.60	
	Chisel	1	T-5D	8' chisel	16	.56	.56	
	Plant & Fertilize	2	W-2	2 row potato planter & fertilizer attachment	7	2.56	1.28	
2/20 - 2/30	Harrow beds	1	W-2	12' harrow	45	.20	.20	6 ac. in.
	Cultivate & Furrow out	1	W-2	2 row cultivator	20	.45	.45	
	Make head ditches*	1	T-5D	5' ditcher		.10	.10	
	Irrigate	1						
	Fill in ditches*	1	T-5D	10' scraper		.10	.10	
3/20 - 6/1	Cultivate & furrow out	1	W-2	2 row cultivator	20	.45	.45	30 ac. in. 30# 5%DDT 50% S
	Irrigate continuous	1						
5/5 - 6/5	Dust - contract							
	Roll	1	W-2	6' steel roller	30	.30	.30	
	Rotobeat - contract							
5/20 - 6/20	Dig - contract							
5/20 - 6/20	Pick - contract							
5/20 - 6/20	Haul - contract							

\* occurs 2X - man-hours and tractor-hours are total for season



TABLE 1. SUMMARY OF THE DATA FOR THE STUDY OF THE EFFECT OF THE TREATMENT ON THE GROWTH OF THE PLANTS

TREATMENT	PLANT	NO. OF PLANTS	HEIGHT (cm)	LEAF AREA (cm <sup>2</sup> )	ROOT LENGTH (cm)	ROOT WEIGHT (g)	STEM WEIGHT (g)	LEAF WEIGHT (g)	TOTAL WEIGHT (g)
CONTROL	1. CONTROL	10	15.0	10.0	10.0	1.0	0.5	0.5	2.5
	2. CONTROL	10	15.0	10.0	10.0	1.0	0.5	0.5	2.5
	3. CONTROL	10	15.0	10.0	10.0	1.0	0.5	0.5	2.5
	4. CONTROL	10	15.0	10.0	10.0	1.0	0.5	0.5	2.5
	5. CONTROL	10	15.0	10.0	10.0	1.0	0.5	0.5	2.5
TREATMENT A	1. TREATMENT A	10	20.0	15.0	15.0	1.5	1.0	1.0	3.5
	2. TREATMENT A	10	20.0	15.0	15.0	1.5	1.0	1.0	3.5
	3. TREATMENT A	10	20.0	15.0	15.0	1.5	1.0	1.0	3.5
	4. TREATMENT A	10	20.0	15.0	15.0	1.5	1.0	1.0	3.5
	5. TREATMENT A	10	20.0	15.0	15.0	1.5	1.0	1.0	3.5
TREATMENT B	1. TREATMENT B	10	25.0	20.0	20.0	2.0	1.5	1.5	4.0
	2. TREATMENT B	10	25.0	20.0	20.0	2.0	1.5	1.5	4.0
	3. TREATMENT B	10	25.0	20.0	20.0	2.0	1.5	1.5	4.0
	4. TREATMENT B	10	25.0	20.0	20.0	2.0	1.5	1.5	4.0
	5. TREATMENT B	10	25.0	20.0	20.0	2.0	1.5	1.5	4.0
TREATMENT C	1. TREATMENT C	10	30.0	25.0	25.0	2.5	2.0	2.0	4.5
	2. TREATMENT C	10	30.0	25.0	25.0	2.5	2.0	2.0	4.5
	3. TREATMENT C	10	30.0	25.0	25.0	2.5	2.0	2.0	4.5
	4. TREATMENT C	10	30.0	25.0	25.0	2.5	2.0	2.0	4.5
	5. TREATMENT C	10	30.0	25.0	25.0	2.5	2.0	2.0	4.5
TREATMENT D	1. TREATMENT D	10	35.0	30.0	30.0	3.0	2.5	2.5	5.0
	2. TREATMENT D	10	35.0	30.0	30.0	3.0	2.5	2.5	5.0
	3. TREATMENT D	10	35.0	30.0	30.0	3.0	2.5	2.5	5.0
	4. TREATMENT D	10	35.0	30.0	30.0	3.0	2.5	2.5	5.0
	5. TREATMENT D	10	35.0	30.0	30.0	3.0	2.5	2.5	5.0
TOTAL						10.0	7.5	7.5	25.0
AVERAGE						2.0	1.5	1.5	5.0
STANDARD DEVIATION						0.5	0.4	0.4	1.0
COEFFICIENT OF VARIATION						0.25	0.27	0.27	0.20
CORRELATION COEFFICIENT						0.80	0.75	0.75	0.80

NOTE: The data were obtained from the study of the effect of the treatment on the growth of the plants. The results are presented in the table above.

Table 70. Annual Tractor and Equipment Hours, 1955 and 1953; 320-1 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa Seed		Barley			All crop total	
	per acre	1955 total	1953 total	per acre	1955 total	per acre	1955 total	1953 total	1955	1953
		(119 acres)	(216 acres)		(60 acres)		(70 acres)	(50 acres)		
T-5D	2.24	266.56	483.84	.62	37.20	.64	44.80	32.00	348.56	515.84
W-2	4.62	549.78	998.16	2.62	157.20	.22	15.40	11.00	722.38	1009.16
W-1	1.39	165.41	300.00			.44	30.80	22.00	196.21	322.00
Pickup 3/4 ton									(12,000 miles)	
Truck 1 1/2 ton									(5,000 miles)	
5' ditcher	.25	29.75	54.00	.02	1.20				30.95	54.00
10' scraper	.25	29.75	54.00	.02	1.20				30.95	54.00
8' chisel	1.12	133.28	241.92	.19	11.40				144.68	241.92
7' offset disk	.28	33.32	6.00	.38	22.80				56.12	60.00
10 1/2' offset disk	.62	73.78	134.40	.40	24.00	.64	44.80	32.00	142.58	166.40
Border disk						.22	15.40	11.00	15.40	11.00
12' spiketooth harrow	.20	23.80	43.20	.53	31.80	.86	60.20	43.00	115.80	86.20
12' springtooth harrow	-	-	-	.40	24.00				24.00	-
12' cultipacker	.20	23.80	43.20						23.80	43.20
4 row lister	.25	29.75	54.00	.08	4.80				34.55	54.00
4 row lister planter	.31	36.89	66.96	.10	6.00				42.89	66.96
4 row cultivator	1.77	210.63	381.68	1.52	91.20				301.83	381.68
4 row fertilizer attachment	.41	48.79	88.56						48.79	88.56
1 row cotton picker	2.78	330.82	600.48						330.82	600.48
6 bale cotton trailer	.90	107.10	194.40						107.10	194.40
2 row stalk cutter	.50	59.50	108.00						59.50	108.00
Broadcaster						.22	15.40	11.00	15.40	11.00





Table 71. Irrigation Water Use, 1955 and 1953; for 320-1 Farms in Upper San Joaquin Valley

Year and Period	Cotton		Alfalfa Seed		Barley		All crop total
	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(119 acres)		(60 acres)		(70 acres)		
1/1 - 4/30	6.0	714	10.0	600	14.4	1008	2322
5/1 - 6/30	8.0	952	10.0	600	-	-	1552
7/1 - 8/31	24.0	2856	10.0	600	-	-	3456
9/1 - 12/31	4.0	476	-	-	-	-	476
Seasonal per acre	42.0	-	30.0	-	14.4	-	-
Seasonal per farm	-	4998	-	1800	-	1008	7806
<u>1953</u>	(216 acres)		(-----)		(50 acres)		
1/1 - 4/30	5.0	1080	-	-	14.4	720	1800
5/1 - 6/30	6.0	1296	-	-	-	-	1296
7/1 - 8/31	24.0	5184	-	-	-	-	5184
9/1 - 12/31	4.0	864	-	-	-	-	864
Seasonal per acre	39.0	-	-	-	14.4	-	-
Seasonal per farm	-	8424	-	-	-	720	9144

other 27,000,000,000

Table 72. Cost of Inputs to Establish an Alfalfa Seed Stand on 320-1

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955	1953
	2	3		5	6	7 60 acres	8 acres
<b>Power:</b>							
Tractor T-5D	3.542		1.86 hr	6.59		395.40	
Tractor W-2	2.018		.96	1.94		116.40	
<b>Equipment:</b>							
5' ditcher	.709		.05 hr	.04		2.40	
10' scraper	2.632		.05 hr	.13		7.80	
8' chisel	.822		.05 hr	.46		27.60	
10½' offset disk	1.746		1.20 hr	2.10		126.00	
12' spiketooth harrow	.088		.40	.04		2.40	
4 row lister	2.803		.25 hr	.70		42.00	
4 row lister planter	2.907		.31 hr	.90		54.00	
<b>Materials:</b>							
Irrigation water	1.016		8 ac"	8.13		487.80	
Seed	.40		1.5 lbs	.60		36.00	
<b>Labor:</b>							
Drivers	1.00		2.82 hr	2.82		169.20	
Irrigator	.90		2.00 hr	1.80		108.00	
General	.90		.31 hr	.28		16.80	
Soc. Sec. & Comp. Insur.				.28		17.05	
<b>Contracts</b>							
Landplane 2X				8.00		480.00	
Dust (2% Parathion)			12.5 lbs	2.14		128.40	
Total cost				36.95		2,217.25	
Amount charged off annually a/				12.32		739.08	

a/ Total cost to establish stand is depreciated over three years.





Table 73. Inputs and Costs for Producing Alfalfa Seed on 320-1  
1955 Yield: 550 lbs.

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 60 acres	1953 acres
1	2	3	4	5	6	7	8
<b>Overhead</b>							
Real estate taxes				6.50		539.50a/	
Office				1.00		73.00a/	
Improvements				1.94		141.64a/	
Power				6.81		408.60	
Equipment				1.48		88.80	
Irrigation water				11.07		664.20	
1/3 cost to establish stand				12.32		739.08	
Total overhead				41.12		2654.82	
<b>Operating:</b>							
Power:							
Tractor W-2	.877		2.30 hr	2.02		121.20	
Pickup	.039		32.60 mi	1.27		76.20	
Truck	.057		20.08 mi	1.14		68.40	
Equipment:							
7' offset disk	1.471		.38 hr	.56		33.60	
12' springtooth harrow	.300		.40 hr	.12		7.20	
4 row cultivator	.662		1.52 hr	1.01		60.60	
Materials:							
Irrigation water	.647		30 ac"	19.41		1,164.60	
Labor:							
Drivers	1.00		3.79 hr	3.79		227.40	
Irrigator	.90		7.50 hr	6.75		405.00	
Soc. Sec. & Comp. Insur.				.61		36.68	
Contracts:							
Fertilize (single super phosphate)			300 lbs	7.10		426.00	
Bees (colonies)	5.00		3	15.00		900.00	
Dust (5%DDT-75% Sulfur)			60 lbs	7.95		477.00	
Weed				15.00		900.00	
Defoliate (Sinox)			1 qt.	5.40		324.00	
Harvest	.03		550 lbs	16.50		990.00	
Certification Fees (sacks, cleaning, inspection)				10.12		607.20	
Box rental				1.00		60.00	
Interest on operating capital				2.77		166.44	
Total operating				117.52		7,051.52	
Total cost				158.64		9,706.34	

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.





Table 74. Inputs and Costs for Producing Barley on 320-1  
 1955 Yield: 25 cwt                      1953 Yield: 21 cwt

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 70 acres	1953 50 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	611.00a	500.50a
Office				1.00	1.00	83.00a	67.00a
Improvements				1.94	1.94	161.04a	130.00a
Power				7.88	7.47	551.60	373.50
Equipment				3.51	4.64	245.70	232.00
Irrigation water				5.31	4.54	371.70	227.00
Total overhead				26.14	26.09	2024.04	1530.00
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.146	.937	.64 hr	.73	.60	51.10	30.00
Tractor W-2	.877	.799	.22 hr	.19	.18	13.30	9.00
Tractor W-1	.706	.586	.44 hr	.31	.26	21.70	13.00
Pickup	1955 .039		32.614 mi	1.27		88.90	
	1953 .039		24.90 mi		.97		48.50
Truck	1955 .057		20.08 mi	1.14		79.80	
	1953 .057		18.797 mi		1.07		53.50
<b>Equipment:</b>							
10½' offset disk	.946	.811	.64 hr	.61	.52	42.70	26.00
Border disk	1.136	1.591	.22 hr	.25	.35	17.50	17.50
12' spiketooth harrow	.015	.021	.86 hr	.01	.02	.70	1.00
Broadcaster	.812	1.136	.22 hr	.18	.25	12.60	12.50
<b>Materials:</b>							
Irrigation water	.647	.596	14.4 ac"	9.32	8.58	652.40	429.00
Seed	.04	.04	80 lbs	3.20	3.20	224.00	160.00
<b>Labor:</b>							
Drivers	1955 1.00		2.79 hr	2.79		195.30	
	1953 1.00		2.55 hr		2.55		127.50
Irrigator	.90	.90	3.60 hr	3.24	3.24	226.80	162.00
Soc. Sec. & Comp. Insur.				.35	.34	24.48	16.79
<b>Contracts:</b>							
Harvest				5.00	5.00	350.00	250.00
Haul	1955 .10		25 cwt	2.50		175.00	
	1953 .10		21 cwt		2.10		105.00
Storage	1955 .144		25 cwt	3.60		252.00	
	1953 .144		21 cwt		3.02		151.00
Insurance (\$1.50 per \$100.00 of value)				.81	.85	56.44	42.52
Interest on operating capital				.82	.76	57.24	38.18
Total operating				36.32	33.86	2,541.96	1,692.99
Total cost				62.46	59.95	4,566.00	3,222.99

a/ Total does not equal amount per acres multiplied by acres  
 due to adjustment for non-crop acres.





Table 75. Inputs and Costs for Producing Cotton on 320-1  
1955 Yield: 1.8 Bales 1953 Yield: 1.5 Bales

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955	1953
	2	3		5	6	119 acres	216 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	929.50a/	1,579.50a/
Office				1.00	1.00	144.00a/	233.00a/
Improvements				1.94	1.94	279.40a/	452.08a/
Power				19.92	13.99	2,370.48	3,021.84
Equipment				23.28	13.28	2,770.32	2,868.48
Irrigation water				15.50	12.28	1,844.50	2,652.48
Total overhead				68.14	48.99	8,338.20	10,807.38
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.146	.937	2.24 hr	2.57	2.10	305.83	453.60
Tractor W-2	.877	.799	6.01 hr	5.27	4.80	627.13	1,036.80
Pickup	1955 .039		65.218 mi	2.54		302.26	
	1953 .039		49.792 mi		1.94		419.04
Truck	1955 .057		20.080 mi	1.14		135.66	
	1953 .057		18.797 mi		1.07		231.12
<b>Equipment:</b>							
5' ditcher	.136	.078	.25 hr	.03	.02	3.57	4.32
10' scraper	.504	.289	.25 hr	.13	.07	15.47	15.12
8' chisel	.363	.217	1.12 hr	.41	.24	48.79	51.84
10½' offset disk	.946	.811	.62 hr	.59	.50	70.21	108.00
12' spiketooth harrow	.015	.021	.20 hr			.36	.86
12' cultipacker	1.598	.880	.20 hr	.32	.18	38.08	38.88
4 row lister	1.520	.972	.25 hr	.38	.24	45.22	51.84
4 row lister planter	1.283	.822	.31 hr	.40	.25	47.60	54.00
4 row cultivator	.662	.524	1.77 hr	1.17	.93	139.23	200.88
4 row fertilizer attachment	.615	.339	.41 hr	.25	.14	29.75	30.24
1 row cotton picker	4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer	.379	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter	.274	.150	.50 hr	.14	.08	16.66	17.28
<b>Materials:</b>							
Irrigation water	1955 .647		42 ac"	27.17		3,233.23	
	1953 .596		39 ac"		23.24		5,019.84
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH <sub>4</sub> SO <sub>4</sub> )	1955 .032		275 lbs	8.80		1,047.20	
(NH <sub>4</sub> SO <sub>4</sub> )	1953 .032		225 lbs		7.20		1,555.20
<b>Labor:</b>							
Drivers	1955 1.00		11.87 hr	11.87		1,412.53	
	1953 1.00		11.98 hr		11.98		2,587.68
Irrigators	1955 .90		10.50 hr	9.45		1,124.55	
	1953 .90		9.75 hr		8.78		1,896.48
General	.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.				1.25	1.22	149.08	263.59

(Continued on next page.)





Table 75 continued.

Item	Unit Cost		Units used per acre	Cost per acre		Total Cost	
	1955	1953		1955	1953	1955 119 acres	1953 216 acres
1	2	3	4	5	6	7	8
Contracts							
Fertilize (NH <sub>3</sub> ) 1955			70 lbs	8.60		1,023.40	
(NH <sub>3</sub> ) 1953			55 lbs		7.03		1,518.48
Hand thin				5.00	5.00	595.00	1,080.00
Hand weed				5.00	5.00	595.00	1,080.00
Dust 2X (5%DDT-50% Sulfur)			60 lbs	8.04	8.04	956.76	1,736.64
Defoliate (NaClO <sub>3</sub> w/Borate or Mg.)			10 lbs	4.25	4.25	505.75	918.00
Gin 1955	14.70		1.8 bale	26.46		3,148.74	
1953		14.70	1.5 bale		22.05		4,762.80
Insur. & Storage 1955	1.19		1.8 bale	2.14		254.66	
1953		1.19	1.5 bale		1.79		386.64
Interest on operating capital				2.75	2.33	327.15	504.33
Total operating				151.04	129.75	17,974.35	28,027.98
Total cost				219.18	178.74	26,312.55	38,835.36

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.





Table 76. Annual Tractor and Equipment Hours, 1955 and 1953; 320-2 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa			Potatoes			Corn		All crop total	
	per acre	1955 total (119 ac.)	1953 total (216 ac.)	per acre	1955 total (70 ac.)	1953 total (60 ac.)	per acre	1955 total (22 ac.)	1953 total (24 ac.)	per acre	1955 total (55 ac.)	1955	1953
T-5D	2.24	266.56	483.84	.57	39.90	34.20	2.71	59.62	65.04	1.45	79.75	445.83	583.08
W-2	4.62	549.78	998.16	.50	35.00	30.00	2.68	58.96	64.32	2.04	112.20	755.94	1092.48
W-1	1.39	165.41	300.00	4.70	329.00	282.00				.26	14.30	508.71	582.00
Pickup 3/4 ton												(12,000 miles)	
Truck 1 1/2 ton												(5,000 miles)	
5' ditcher	.25	29.75	54.00				.10	2.20	2.40	.20	11.00	42.95	56.40
10' scraper	.25	29.75	54.00				.10	2.20	2.40	.20	11.00	42.95	56.40
2 way/2-16" plow							.75	16.50	18.00	.75	41.25	57.75	18.00
8' chisel	1.12	133.28	241.92	.28	19.60	16.80	.56	12.32	13.44			165.20	272.16
10 1/2' offset disk	.62	73.78	134.40	.30	21.00	18.00	1.20	26.40	28.80	.30	16.50	137.68	181.20
12' spiketooth harrow	.20	23.80	43.20	.13	9.10	7.80	.20	4.40	4.80			37.30	55.80
12' cultipacker	.20	23.80	43.20									23.80	43.20
4 row lister	.25	29.75	54.00							.26	14.30	44.05	54.00
4 row lister planter	.31	36.89	66.96							.31	17.05	53.94	66.96
2 row cultivator	.93	110.67	200.00				.90	19.80	21.60			130.47	221.60
4 row cultivator	1.77	210.63	381.68							1.73	95.15	305.78	381.68
4 row fertilizer attachment	.41	48.79	88.56							.45	24.75	73.54	88.56
1 row cotton picker	2.78	330.82	600.48									330.82	600.48
6 bale cotton trailer	.90	107.10	194.40									107.10	194.40
2 row stalk cutter	.50	59.50	108.00									59.50	108.00
7' power mower				2.17	151.90	130.20						151.90	130.20
8' side delivery rake				2.03	142.10	121.80						142.10	121.80
Broadcaster				.50	35.00	30.00						35.00	30.00
2 row potato planter							1.28	28.16	30.72			28.16	30.72
6' steel roller							.30	6.60	7.20			6.60	7.20



Table 77. Irrigation Water Use, 1955 and 1953; for 320-2 Farms in Upper San Joaquin Valley

Year and period	Cotton		Alfalfa		Potatoes		Corn		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(119 acres)		(70 acres)		(22 acres)		(55 acres)		
1/1 - 4/30	6.0	714	13.6	952	22.0	484	6.0	330	2480
5/1 - 6/30	8.0	952	16.0	1120	14.0	308	12.0	660	3040
7/1 - 8/31	24.0	2856	16.0	1120	-	-	24.0	1320	5296
9/1 - 12/31	4.0	476	12.0	840	-	-	-	-	1316
Seasonal per acre	42.0	-	57.6	-	36.0	-	42.0	-	-
Seasonal per farm	-	4998	-	4032	-	792	-	2310	12,132
<u>1953</u>	(216 acres)		(60 acres)		(24 acres)		(-----)		
1/1 - 4/30	5.0	1080	13.6	816	22.0	528	-	-	2424
5/1 - 6/30	6.0	1296	16.0	960	14.0	336	-	-	2592
7/1 - 8/31	24.0	5184	16.0	960	-	-	-	-	6144
9/1 - 12/31	4.0	864	12.0	720	-	-	-	-	1584
Seasonal per acre	39.0	-	57.6	-	36.0	-	-	-	-
Seasonal per farm	-	8424	-	3456	-	864	-	-	12,744



gasoline per mile

2.00

gasoline per hour

1.00

gasoline per gallon

1.00

gasoline per quart

1.00

gasoline per pint

1.00

gasoline per cup

1.00

gasoline per ounce

1.00

gasoline per drop

1.00

gasoline per inch

1.00

gasoline per foot

1.00

gasoline per yard

1.00

gasoline per mile

1.00

gasoline per hour

1.00

gasoline per gallon

1.00

gasoline per quart

1.00

gasoline per pint

1.00

gasoline per cup

1.00

gasoline per ounce

1.00

gasoline per drop

1.00

gasoline per inch

1.00

gasoline per foot

1.00

gasoline per yard

1.00

Table 78. Cost of Inputs to Establish an Alfalfa Stand on 320-2

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955	1953
						70 acres	60 acres
1	2	3	4	5	6	7	8
Power:							
Tractor T-5D	2.878	2.318	2.34 hr	6.73	5.42	471.10	325.20
Tractor W-2	1.955	1.656	.20 hr	.39	.33	27.30	19.80
Tractor W-1	1.269	1.160	.22 hr	.28	.26	19.60	15.60
Equipment:							
8' chisel	.720	.437	1.12 hr	.81	.49	56.70	29.40
10 $\frac{1}{2}$ ' offset disk	1.808	1.374	1.22 hr	2.21	1.68	154.70	100.80
12' spiketooth harrow	.273	.183	.52 hr	.14	.10	9.80	6.00
Broadcaster	1.262	1.472	.22 hr	.28	.32	19.60	19.20
Materials:							
Irrigation water	.760	.738	8 ac"	6.08	5.90	425.60	354.00
Seed	.34	.34	25 lbs	8.50	8.50	595.00	510.00
Labor:							
Drivers	1.00	1.00	2.76 hr	2.76	2.76	193.20	165.60
Irrigator	.90	.90	1.00 hr	.90	.90	63.00	54.00
Soc. Sec. & Comp. Insur.				.21	.21	14.86	12.74
Contracts:							
Landplane 3X				12.00	12.00	840.00	720.00
Make borders				.75	.75	52.50	45.00
Dust (2% Parathion)			12.5 lbs	2.14	2.14	149.80	128.40
Total cost				44.18	41.76	3,092.76	2,505.74
Amount charged off annually a/				11.05	10.44	773.19	626.44

a/ Total cost to establish stand is depreciated over four years.

Date		Description		Amount	
1911	Jan 1	Balance		100.00	
1911	Jan 15	Received from A. B. C.		50.00	
1911	Feb 1	Received from D. E. F.		25.00	
1911	Mar 1	Received from G. H. I.		75.00	
1911	Apr 1	Received from J. K. L.		100.00	
1911	May 1	Received from M. N. O.		150.00	
1911	Jun 1	Received from P. Q. R.		200.00	
1911	Jul 1	Received from S. T. U.		250.00	
1911	Aug 1	Received from V. W. X.		300.00	
1911	Sep 1	Received from Y. Z. A.		350.00	
1911	Oct 1	Received from B. C. D.		400.00	
1911	Nov 1	Received from E. F. G.		450.00	
1911	Dec 1	Received from H. I. J.		500.00	
1911	Total			2500.00	

Total cash in register and as shown by bank statement



Table 79. Inputs and Costs for Producing Alfalfa on 320-2  
 1955 Yield: 7.0 Tons      1953 Yield: 7.0 Tons

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 70 acres	1953 60 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	546.00a/	435.50a/
Office				1.00	1.00	76.00a/	60.00a/
Improvements				1.94	1.94	147.46a/	116.42a/
Power				7.08	6.41	495.60	384.60
Equipment				4.32	5.04	302.40	302.40
Irrigation water				13.65	13.02	955.50	781.20
$\frac{1}{4}$ cost to establish stand				11.05	10.44	773.19	626.44
Total overhead				45.54	44.35	3,296.15	2,706.56
<b>Operating:</b>							
<b>Power:</b>							
Tractor W-1	.567	.546	4.20 hr	2.38	2.29	166.60	137.40
Pickup	1955 .039		31.171 mi	1.22		85.40	
	1953 .039		23.25 mi		.91		54.60
Truck	1955 .057		18.797 mi	1.07		74.90	
	1953 .057		16.667 mi		.95		57.00
<b>Equipment:</b>							
7' power mower	.230	.269	2.17 hr	.50	.58	35.00	34.80
8' side delivery rake	.365	.427	2.03 hr	.74	.87	51.80	52.20
<b>Materials:</b>							
Irrigation water	.523	.512	57.6 ac"	30.12	29.49	2,108.40	1,769.40
<b>Labor:</b>							
Drivers	1955 1.00		5.61 hr	5.61		392.70	
	1953 1.00		5.34 hr		5.34		320.40
Irrigator	.90	.90	7.20 hr	6.48	6.48	453.60	388.80
Soc. Sec. & Comp. Insur.				.70	.69	49.08	41.13
<b>Contracts:</b>							
Bale	3.50	3.50	7.0 tons	24.50	24.50	1,715.00	1,470.00
Roadside	1.75	1.75	7.0 tons	12.25	12.25	857.50	735.00
Total operating				85.57	84.35	5,989.98	5,060.73
Total cost				131.11	128.70	9,286.13	7,767.29

a/ Total does not equal amount per acres multiplied by acres  
 due to adjustment for non-crop acres.



Table 80. Inputs and Costs for Producing Field Corn on 320-2  
1955 Yield: 50 cwt

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 55 acres	1953 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50		442.00a	
Office				1.00		61.00a	
Improvements				1.94		118.35a	
Power				9.59		527.45	
Equipment				6.37		350.35	
Irrigation water				9.95		547.25	
Total overhead				35.35		2,046.40	
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.004		1.45 hr	1.46		80.30	
Tractor W-2	.865		2.04 hr	1.76		96.80	
Tractor W-1	.567		.26 hr	.15		8.25	
Pickup	.039		31.164 mi	1.22		67.10	
Truck	.057		18.797 mi	1.07		58.85	
<b>Equipment:</b>							
5' ditcher	.098		.20 hr	.02		1.10	
10' scraper	.363		.20 hr	.07		3.85	
2 way/2-16" plow	1.156		.75 hr	.87		47.85	
10 $\frac{1}{2}$ ' offset disk	.980		.30 hr	.29		15.95	
4 row lister	1.192		.26 hr	.31		17.05	
4 row lister planter	1.019		.31 hr	.32		17.60	
4 row cultivator	.654		1.73 hr	1.13		62.15	
4 row fertilizer attachment	.408		.45 hr	.18		9.90	
<b>Materials:</b>							
Irrigation water	.523		42 ac"	21.97		1,208.35	
Seed	.26		10 lbs	2.60		143.00	
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	.032		475 lbs	15.20		836.00	
<b>Labor:</b>							
Drivers	1.00		5.16 hr	5.16		283.80	
Irrigator	.90		5.25 hr	4.72		259.60	
General	.90		.31 hr	.28		15.40	
Soc. Sec. & Comp. Insur.				.59		32.45	
<b>Contracts:</b>							
Shell	.125		50 cwt	6.25		343.75	
Pick				10.00		550.00	
Haul	.10		50 cwt	5.00		275.00	
Interest on operating capital				2.02		110.85	
Total operating capital				82.64		4,544.95	
Total cost				117.99		6,591.35	

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.





Table 81. Inputs and Costs for Producing Cotton on 320-2  
 1955 Yield: 2.25 Bales      1953 Yield: 2.0 Bales

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 119 acres	1953 216 acres
	2	3	4	5	6	7	8
Overhead:							
Real estate taxes				6.50	6.50	864.50a/	1,449.50a/
Office				1.00	1.00	136.00a/	216.00a/
Improvements				1.94	1.94	263.88a/	419.10a/
Power				16.12	11.73	1,918.28	2,533.68
Equipment				14.76	13.38	1,756.44	2,890.08
Irrigation water				9.95	8.81	1,184.05	1,902.96
Total overhead				50.27	43.36	6,123.15	9,411.32
Operating:							
Power							
Tractor T-5D	1.004	.886	2.24 hr	2.25	1.98	267.75	427.68
Tractor W-2	.865	.902	6.01 hr	5.20	5.42	618.80	1,170.72
Pickup	1955 .039		62.336 mi	2.43		289.17	
	1953	.039	46.514 mi		1.81		390.96
Truck	1955 .057		18.797 mi	1.07		127.33	
	1953	.057	16.667 mi		.95		205.20
Equipment:							
5' ditcher	.098	.075	.25 hr	.02	.02	2.38	4.32
10' scraper	.363	.276	.25 hr	.09	.07	10.71	15.12
8' chisel	.318	.193	1.12 hr	.36	.22	42.84	47.52
10 1/2' offset disk	.980	.745	.62 hr	.61	.46	72.59	99.36
12' spiketooth harrow	.048	.033	.20 hr	.01	.01	1.19	2.16
12' cultipacker	1.597	.880	.20 hr	.32	.18	38.08	38.88
4 row lister	1.192	.972	.25 hr	.30	.24	35.70	51.84
4 row lister planter	1.019	.822	.31 hr	.32	.25	38.08	54.00
4 row cultivator	.654	.524	1.77 hr	1.16	.93	138.04	200.88
4 row fertilizer attachment	.408	.339	.41 hr	.17	.14	20.23	30.24
1 row cotton picker	4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer	.378	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter	.273	.150	.50 hr	.14	.08	16.66	17.28
Materials:							
Irrigation water	1955 .523		42 ac"	21.97		2,614.43	
	1953	.512	39 ac"		19.97		4,313.52
Seed (acid delint)	.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH <sub>4</sub> SO <sub>4</sub> )	1955 .032		275 lbs	8.80		1,047.20	
(NH <sub>4</sub> SO <sub>4</sub> )	1953	.032	225 lbs		7.20		1,555.20
Labor:							
Drivers	1955 1.00		11.69 hr	11.69		1,391.11	
	1953	1.00	11.26 hr		11.26		2,432.16
Irrigator	1955 .90		5.25 hr	4.72		561.68	
	1953	.90	4.875 hr		4.39		948.24
General	.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.				.97	.92	115.19	199.57

(Continued on next page.)

# MEMORANDUM FOR THE RECORD

SUBJECT			DATE			INITIALS		
1. [Illegible]			2. [Illegible]			3. [Illegible]		
4. [Illegible]			5. [Illegible]			6. [Illegible]		
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43. [Illegible]			44. [Illegible]			45. [Illegible]		
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49. [Illegible]			50. [Illegible]			51. [Illegible]		
52. [Illegible]			53. [Illegible]			54. [Illegible]		
55. [Illegible]			56. [Illegible]			57. [Illegible]		
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Table 81 continued.

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 119 acres	1953 216 acres
	2	3		5	6	7	8
Contracts:							
Fertilize (NH <sub>3</sub> ) 1955			70 lbs	8.60		1,023.40	
(NH <sub>3</sub> ) 1953			55 lbs		7.03		1,518.48
Hand thin				5.00	5.00	595.00	1,080.00
Hand weed				5.00	5.00	595.00	1,080.00
Dust 2X (5% DDT-50% Sulfur)			60 lbs	8.04	8.04	956.76	1,736.64
Defoliate (NaClO <sub>3</sub> w/Borate or Mg <sub>2</sub> )			10 lbs	4.25	4.25	505.75	918.00
Gin 1955	14.70		2.25 bale	33.08		3,936.52	
1953		14.70	2.0 bale		29.40		6,350.40
Insur. & storage 1955	1.19		2.25 bale	2.68		318.92	
1953		1.19	2.0 bale		2.38		514.08
Interest on operating capital				2.69	2.16	320.70	465.61
Total operating				146.86	129.04	17,476.69	27,872.54
Total cost				197.13	172.40	23,599.84	37,283.86

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.



Table 82. Inputs and Costs for Producing Potatoes on 320-2  
1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 22 acres	1953 24 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	227.50a/	195.00a/
Office				1.00	1.00	27.00a/	24.00a/
Improvements				1.94	1.94	52.39a/	46.56a/
Power				14.89	11.94	327.58	286.56
Equipment				15.51	15.82	341.22	379.68
Irrigation water				8.53	8.14	187.66	195.36
Total overhead				48.37	45.34	1,163.35	1,127.16
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	1.004	.886	2.71 hr	2.72	2.40	59.84	57.60
Tractor W-2	.865	.902	2.68 hr	2.32	2.42	51.04	58.08
Pickup	1955 .039		31.182 mi	1.22		26.84	
	1953	.039	23.25 mi		.91		21.84
Truck	1955 .057		18.797 mi	1.07		23.54	
	1953	.057	16.667 mi		.95		22.80
<b>Equipment:</b>							
5' ditcher	.098	.075	.10 hr	.01	.01	.22	.24
10' scraper	.363	.276	.10 hr	.04	.03	.88	.72
2 way/2-16" plow	1.156	3.709	.75 hr	.87	2.78	19.14	66.72
8' chisel	.318	.193	.56 hr	.18	.11	3.96	2.64
10 1/2' offset disk	.980	.745	1.20 hr	1.18	.89	25.96	21.36
12' spiketooth harrow	.048	.033	.20 hr	.01	.01	.22	.24
2 row cultivator	1.073	.632	.90 hr	.97	.57	21.34	13.68
2 row potato planter	2.486	2.279	1.28 hr	3.18	2.92	69.96	70.08
6' steel roller	1.515	1.389	.30 hr	.45	.42	9.90	10.08
<b>Materials:</b>							
Irrigation water	.523	.512	36 ac"	18.83	18.43	414.26	442.32
Seed	6.30	6.30	16 cwt	100.80	100.80	2,217.60	2,419.20
Fertilizer (17-7-0)	.0375	.0375	800 lbs	30.00	30.00	660.00	720.00
<b>Labor:</b>							
Drivers	1955 1.00		6.80 hr	6.80		149.60	
	1953	1.00	6.53 hr		6.53		156.72
Irrigator	.90	.90	4.50 hr	4.05	4.05	89.10	97.20
General	.90	.90	1.28 hr	1.15	1.15	25.30	27.60
Soc. Sec. & Comp. Insur.				.70	.68	15.40	16.32
<b>Contracts:</b>							
Dust (5%DDT-50% Sulfur)			30 lbs	4.05	4.05	89.10	97.20
Rotobeat				3.00	3.00	66.00	72.00
Dig				12.00	12.00	264.00	288.00
Pick	.16	.16	360 cwt	57.60	57.60	1,267.20	1,382.40
Haul	.075	.075	360 cwt	27.00	27.00	594.00	648.00
Shed	.55	.55	290 cwt	159.50	159.50	3,509.00	3,828.00
Interest on operating capital				4.35	4.34	95.59	104.15
Total operating				444.05	443.55	9,768.99	10,645.19
Total cost				492.42	488.89	10,932.34	11,772.35

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



No.		Name		Quantity		Value	
1		2		3		4	
5		6		7		8	
9		10		11		12	
13		14		15		16	
17		18		19		20	
21		22		23		24	
25		26		27		28	
29		30		31		32	
33		34		35		36	
37		38		39		40	
41		42		43		44	
45		46		47		48	
49		50		51		52	
53		54		55		56	
57		58		59		60	
61		62		63		64	
65		66		67		68	
69		70		71		72	
73		74		75		76	
77		78		79		80	
81		82		83		84	
85		86		87		88	
89		90		91		92	
93		94		95		96	
97		98		99		100	
101		102		103		104	
105		106		107		108	
109		110		111		112	
113		114		115		116	
117		118		119		120	
121		122		123		124	
125		126		127		128	
129		130		131		132	
133		134		135		136	
137		138		139		140	
141		142		143		144	
145		146		147		148	
149		150		151		152	
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213		214		215		216	
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221		222		223		224	
225		226		227		228	
229		230		231		232	
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237		238		239		240	
241		242		243		244	
245		246		247		248	
249		250		251		252	
253		254		255		256	
257		258		259		260	
261		262		263		264	
265		266		267		268	
269		270		271		272	
273		274		275		276	
277		278		279		280	
281		282		283		284	
285		286		287		288	
289		290		291		292	
293		294		295		296	
297		298		299		300	
301		302		303		304	
305		306		307		308	
309		310		311		312	
313		314		315		316	
317		318		319		320	
321		322		323		324	
325		326		327		328	
329		330		331		332	
333		334		335		336	
337		338		339		340	
341		342		343		344	
345		346		347		348	
349		350		351		352	
353		354		355		356	
357		358		359		360	
361		362		363		364	
365		366		367		368	
369		370		371		372	
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381		382		383		384	
385		386		387		388	
389		390		391		392	
393		394		395		396	
397		398		399		400	
401		402		403		404	
405		406		407		408	
409		410		411		412	
413		414		415		416	
417		418		419		420	
421		422		423		424	
425		426		427		428	
429		430		431		432	
433		434		435		436	
437		438		439		440	
441		442		443		444	
445		446		447		448	
449		450		451		452	
453		454		455		456	

Table 83. Annual Tractor and Equipment Hours, 1955 and 1953; 320-3 Farms in Upper San Joaquin Valley

Item	Cotton			Alfalfa		Potatoes			Barley		Milo		All crop total	
	per acre	1955 total (119 ac.)	1953 total (216 ac.)	per acre	1955 total (21 ac.)	per acre	1955 total (62 ac.)	1953 total (70 ac.)	per acre	1955 total (90 ac.)	per acre	1955 total (55 ac.)	1955	1953
T-5D	2.24	266.56	483.84	.57	11.97	2.71	168.02	189.70	.64	57.60	1.32	72.60	576.75	673.54
W-2	4.62	549.78	998.16	.50	10.50	2.68	166.16	187.60	.44	39.60	1.28	70.40	816.64	1185.76
W-1	1.39	165.41	300.00	4.70	98.70				.22	19.80			303.71	300.00
Pickup 3/4 ton													(12,000 miles)	
Truck 1½ ton													(5,000 miles)	
5' ditcher	.25	29.75	54.00			.10	6.20	7.00			.20	11.00	46.95	61.00
10' scraper	.25	29.75	54.00			.10	6.20	7.00			.20	11.00	46.95	61.00
2 way/2-16" plow						.75	46.50	52.50					46.50	52.50
8' chisel	1.12	133.28	241.92			.56	34.72	39.20					168.00	281.12
10½' offset disk	.62	73.78	134.40	.28	5.88	1.20	74.40	84.00	.64	57.60	.92	50.60	262.26	218.40
Border disk									.22	19.80			19.80	--
12' spiketooth harrow	.20	23.80	43.20	.13	2.73	.20	12.40	14.00	.86	77.40			116.33	57.20
12' cultipacker	.20	23.80	43.20								.32	17.60	41.40	43.20
4 row lister	.25	29.75	54.00								.25	13.75	43.50	54.00
4 row lister planter	.31	36.89	66.96								.30	16.50	53.39	66.96
2 row cultivator	.93	110.67	200.00			.90	55.80	63.00					166.47	263.00
4 row cultivator	1.77	210.63	381.68								.73	40.15	250.78	381.68
4 row fertilizer attachment	.41	48.79	88.56										48.79	88.56
1 row cotton picker	2.78	330.82	600.48										330.82	600.48
6 bale cotton trailer	.90	107.10	194.40										107.10	194.40
2 row stalk cutter	.50	59.50	108.00										59.50	108.00
7' power mower				2.17	45.57								45.57	--
8' side delivery rake				2.03	42.63								42.63	--
Broadcaster				.50	10.50				.22	19.80			30.30	--
2 row potato planter						1.28	79.36	89.60					79.36	89.60
6' steel roller						.30	18.60	21.00					18.60	21.00





Table 84. Irrigation Water Use, 1955 and 1953; for 320-3 Farms in  
Upper San Joaquin Valley

Year and Period	Cotton		Alfalfa		Potatoes		Barley		Milo		All crop total
	per acre	total	per acre	total	per acre	total	per acre	total	per acre	total	
<u>1955</u>	(119 acres)		(21 acres)		(62 acres)		(90 acres)		(55 acres)		
1/1 - 4/30	6.0	714	13.6	285.6	22.0	1364	14.4	1296	--	--	3659.6
5/1 - 6/30	8.0	952	16.0	336	14.0	868	--	--	6.0	330	2486.0
7/1 - 8/31	24.0	2856	16.0	336	--	--	--	--	17.0	935	4127.0
9/1 - 12/31	4.0	476	12.0	252	--	--	--	--	4.0	220	948.0
Seasonal per acre	42.0	--	57.6	--	36.0	--	14.4	--	27.0	--	--
Seasonal per farm	--	4998	--	1209.6	--	2232	--	1296	--	1485	11220.6
<u>1953</u>	(216 acres)		(-----)		(70 acres)		(-----)		(-----)		
1/1 - 4/30	5.0	1080	--	--	22.0	1540	--	--	--	--	2620
5/1 - 6/30	6.0	1296	--	--	14.0	980	--	--	--	--	2276
7/1 - 8/31	24.0	5184	--	--	--	--	--	--	--	--	5184
9/1 - 12/31	4.0	864	--	--	--	--	--	--	--	--	864
Seasonal per acre	39.0	--	--	--	36.0	--	--	--	--	--	--
Seasonal per farm	--	8424	--	--	--	2520	--	--	--	--	10944



Table 85. Cost of Inputs to Establish an Alfalfa Stand on 320-3

Item 1	Unit Cost		Units used per acre 4	Cost per Acre		Total Cost	
	1955 2	1953 3		1955 5	1953 6	1955 21 acres 7	1953 acres 8
Power:							
Tractor T-5D	2.338		2.34 hr	5.47		114.87	
Tractor W-2	1.854		.20 hr	.37		7.77	
Tractor W-1	1.773		.20 hr	.35		7.35	
Equipment:							
8' chisel	.708		1.12 hr	.79		16.59	
10 $\frac{1}{2}$ ' offset disk	2.004		1.22 hr	2.44		51.24	
12' spiketooth harrow	.088		.52 hr	.05		1.05	
Broadcaster	1.458		.22 hr	.32		6.72	
Materials:							
Irrigation water	.798		8 ac"	6.38		133.98	
Seed	.34		25 lbs	8.50		178.50	
Labor:							
Driver	1.00		2.76 hr	2.76		57.96	
Irrigator	.90		1.00 hr	.90		18.90	
Soc. Sec. & Comp. Insur.				.21		4.46	
Contracts:							
Landplane 3X				12.00		252.00	
Make borders				.75		15.75	
Dust (2% parathion)			12.5 lbs	2.14		44.94	
Total cost				43.43		912.08	
Amount charged off annually <u>a/</u>				10.86		228.02	

a/ Total cost to establish stand is depreciated over four years.





Table 86. Inputs and Costs for Producing Alfalfa on 320-3  
1955 Yield: 7.0 tons

Item 1	Unit Cost		Units used per acre 4	Cost per Acre		Total Cost	
	1955 2	1953 3		1955 5	1953 6	1955 90 acres 7	1953 acres 8
Overhead:							
Real estate taxes				6.50		182.00 a/	
Office				1.00		22.00 a/	
Improvements				1.94		42.68 a/	
Power				7.21		151.41	
Equipment				5.25		110.25	
Irrigation water				14.75		309.75	
$\frac{1}{4}$ cost to establish stand				10.86		228.02	
Total overhead				47.51		1,046.11	
Operating:							
Power:							
Tractor W-1	.597		4.20 hr	2.51		52.71	
Pickup	.039		25.762 mi	1.00		21.00	
Truck	.057		14.409 mi	.82		17.22	
Equipment:							
7' power mower	.768		2.17 hr	1.67		35.07	
8' side delivery rake	1.220		2.03 hr	2.48		52.08	
Materials:							
Irrigation water	.542		57.6 ac"	31.22		655.62	
Labor:							
Drivers	1.00		5.32 hr	5.32		111.72	
Irrigators	.90		7.20 hr	6.48		136.08	
Soc. Sec. & Comp. Insur				.68		14.37	
Contracts:							
Bale	3.50		7.0 ton	24.50		514.50	
Roadside	1.75		7.0 ton	12.25		257.25	
Total operating				88.93		1,867.62	
Total cost				136.44		2,913.73	

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.

Income and Assets for Promoting Africa on 30-3-33  
1933-34: V.O. 1000

Date	Particulars	Debit	Credit	Balance
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			
1933-34	Income			
1933-34	Assets			

Income and Assets for Promoting Africa on 30-3-33  
1933-34: V.O. 1000



Table 87. Inputs and Costs for Producing Barley on 320-3  
1955 Yield: 25 cwt

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 90 acres	1953 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50		429.00a/	
Office				1.00		64.00a/	
Improvements				1.94		124.18a/	
Power				4.48		403.20	
Equipment				2.51		225.90	
Irrigation water				3.69		332.10	
Total overhead				20.12		1,578.38	
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	.890		.64 hr	.58		52.20	
Tractor W-2	.845		.22 hr	.19		17.10	
Tractor W-1	.597		.44 hr	.26		23.40	
Pickup	.039		25.756 mi	1.00		90.00	
Truck	.057		14.409 mi	.82		73.80	
<b>Equipment:</b>							
10½' offset disk	.514		.64 hr	.33		29.70	
Border disk	.883		.22 hr	.19		17.10	
12' spiketooth harrow	.016		.86 hr	.01		.90	
Broadcaster	.413		.22 hr	.09		8.10	
<b>Materials:</b>							
Irrigation water	.542		14.4 ac"	7.80		702.00	
Seed	.04		80 lbs	3.20		288.00	
<b>Labor:</b>							
Drivers	1.00		2.42 hr	2.42		217.80	
Irrigator	.90		1.80 hr	1.62		145.80	
Soc. Sec. & Comp. Insur.				.23		21.09	
<b>Contracts:</b>							
Harvest				5.00		450.00	
Haul	.10		25 cwt	2.50		225.00	
Storage	.144		25 cwt	3.60		324.00	
Insurance (\$1.50 per \$100.00 of value)			25 cwt	.81		72.56	
Interest on operating capital				.71		63.52	
Total operating				31.36		2,822.07	
Total cost				51.48		4,400.45	

a/ Total does not equal amount per acres multiplied by acres due to:

- adjustment for non-crop acres
- 55 acres at one-half of rate because of double crop and remaining 35 acres at full rate.





Table 88. Inputs and Costs for Producing Cotton on 320-3  
 1955 Yield: 2.1 Bales      1953 Yield: 1.75 Bales

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	119 acres	1953 216 acre
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	819.00a	1,514.50a
Office				1.00	1.00	123.00a	223.00a
Improvements				1.94	1.94	238.65a	432.68a
Power				14.44	11.39	1,718.36	2,460.24
Equipment				22.56	13.10	2,684.64	2,829.60
Irrigation water				10.75	10.26	1,279.25	2,216.16
Total overhead				57.19	44.19	6,862.90	9,676.18
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	.890	.834	2.24 hr	1.99	1.87	236.81	403.92
Tractor W-2	.845	.878	6.01 hr	5.08	5.28	604.52	1,140.48
Pickup	1955 .039		51.504 mi	2.01		239.19	
	1953	.039	47.81 mi		1.86		401.76
Truck	1955 .057		14.409 mi	.82		97.58	
	1953	.057	17.482 mi		1.00		216.00
<b>Equipment:</b>							
5' ditcher	.089	.069	.25 hr	.02	.02	2.38	4.32
10' scraper	.332	.256	.25 hr	.08	.06	9.52	12.96
8' chisel	.312	.187	1.12 hr	.35	.21	41.65	45.36
10½' offset disk	.514	.618	.62 hr	.32	.38	38.08	82.08
12' spiketooth harrow	.016	.031	.20 hr		.01	.36	2.16
12' cultipacker	.918	.880	.20 hr	.18	.18	21.42	38.88
4 row lister	1.207	.972	.25 hr	.30	.24	35.70	51.84
4 row lister planter	1.030	.822	.31 hr	.32	.25	38.08	54.00
4 row cultivator	.798	.524	1.77 hr	1.41	.93	167.79	200.88
4 row fertilizer attachment	.615	.339	.41 hr	.25	.14	29.75	30.24
1 row cotton picker	4.398	2.423	2.78 hr	12.23	6.74	1,455.37	1,455.84
6 bale cotton trailer	.378	.208	.90 hr	.34	.19	40.46	41.04
2 row stalk cutter	.273	.150	.50 hr	.14	.08	16.66	17.28
<b>Materials:</b>							
Irrigation water	1955 .542		42 ac"	22.76		2,708.44	
	1953	.547	39 ac"		21.33		4,607.28
Seed (Acid delint)	.115	.115	18 lbs	2.07	2.07	246.33	447.12
Fertilize (NH <sub>4</sub> SO <sub>4</sub> )	1955 .032		275 lbs	8.80		1,047.20	
(NH <sub>4</sub> SO <sub>4</sub> )	1953	.032	225 lbs		7.20		1,555.20
<b>Labor:</b>							
Drivers	1955 1.00		11.30 hr	11.30		1,344.70	
	1953	1.00	11.33 hr		11.33		2,447.28
Irrigators	1955 .90		5.25 hr	4.72		561.68	
	1953	.90	4.875 hr		4.39		948.24
General	.90	.90	.31 hr	.28	.28	33.32	60.48
Soc. Sec. & Comp. Insur.				.95	.93	112.50	200.45

(Continued on next page.)



Date		Description		Amount		Balance	
1952	10/1	...	...	...	...	...	...
1952	10/15	...	...	...	...	...	...
1952	11/1	...	...	...	...	...	...
1952	11/15	...	...	...	...	...	...
1952	12/1	...	...	...	...	...	...
1952	12/15	...	...	...	...	...	...
1953	1/1	...	...	...	...	...	...
1953	1/15	...	...	...	...	...	...
1953	2/1	...	...	...	...	...	...
1953	2/15	...	...	...	...	...	...
1953	3/1	...	...	...	...	...	...
1953	3/15	...	...	...	...	...	...
1953	4/1	...	...	...	...	...	...
1953	4/15	...	...	...	...	...	...
1953	5/1	...	...	...	...	...	...
1953	5/15	...	...	...	...	...	...
1953	6/1	...	...	...	...	...	...
1953	6/15	...	...	...	...	...	...
1953	7/1	...	...	...	...	...	...
1953	7/15	...	...	...	...	...	...
1953	8/1	...	...	...	...	...	...
1953	8/15	...	...	...	...	...	...
1953	9/1	...	...	...	...	...	...
1953	9/15	...	...	...	...	...	...
1953	10/1	...	...	...	...	...	...
1953	10/15	...	...	...	...	...	...
1953	11/1	...	...	...	...	...	...
1953	11/15	...	...	...	...	...	...
1953	12/1	...	...	...	...	...	...
1953	12/15	...	...	...	...	...	...
1954	1/1	...	...	...	...	...	...
1954	1/15	...	...	...	...	...	...
1954	2/1	...	...	...	...	...	...
1954	2/15	...	...	...	...	...	...
1954	3/1	...	...	...	...	...	...
1954	3/15	...	...	...	...	...	...
1954	4/1	...	...	...	...	...	...
1954	4/15	...	...	...	...	...	...
1954	5/1	...	...	...	...	...	...
1954	5/15	...	...	...	...	...	...
1954	6/1	...	...	...	...	...	...
1954	6/15	...	...	...	...	...	...
1954	7/1	...	...	...	...	...	...
1954	7/15	...	...	...	...	...	...
1954	8/1	...	...	...	...	...	...
1954	8/15	...	...	...	...	...	...
1954	9/1	...	...	...	...	...	...
1954	9/15	...	...	...	...	...	...
1954	10/1	...	...	...	...	...	...
1954	10/15	...	...	...	...	...	...
1954	11/1	...	...	...	...	...	...
1954	11/15	...	...	...	...	...	...
1954	12/1	...	...	...	...	...	...
1954	12/15	...	...	...	...	...	...
1955	1/1	...	...	...	...	...	...
1955	1/15	...	...	...	...	...	...
1955	2/1	...	...	...	...	...	...
1955	2/15	...	...	...	...	...	...
1955	3/1	...	...	...	...	...	...
1955	3/15	...	...	...	...	...	...
1955	4/1	...	...	...	...	...	...
1955	4/15	...	...	...	...	...	...
1955	5/1	...	...	...	...	...	...
1955	5/15	...	...	...	...	...	...
1955	6/1	...	...	...	...	...	...
1955	6/15	...	...	...	...	...	...
1955	7/1	...	...	...	...	...	...
1955	7/15	...	...	...	...	...	...
1955	8/1	...	...	...	...	...	...
1955	8/15	...	...	...	...	...	...
1955	9/1	...	...	...	...	...	...
1955	9/15	...	...	...	...	...	...
1955	10/1	...	...	...	...	...	...
1955	10/15	...	...	...	...	...	...
1955	11/1	...	...	...	...	...	...
1955	11/15	...	...	...	...	...	...
1955	12/1	...	...	...	...	...	...
1955	12/15	...	...	...	...	...	...
1956	1/1	...	...	...	...	...	...
1956	1/15	...	...	...	...	...	...
1956	2/1	...	...	...	...	...	...
1956	2/15	...	...	...	...	...	...
1956	3/1	...	...	...	...	...	...
1956	3/15	...	...	...	...	...	...
1956	4/1	...	...	...	...	...	...
1956	4/15	...	...	...	...	...	...
1956	5/1	...	...	...	...	...	...
1956	5/15	...	...	...	...	...	...
1956	6/1	...	...	...	...	...	...
1956	6/15	...	...	...	...	...	...
1956	7/1	...	...	...	...	...	...
1956	7/15	...	...	...	...	...	...
1956	8/1	...	...	...	...	...	...
1956	8/15	...	...	...	...	...	...
1956	9/1	...	...	...	...	...	...
1956	9/15	...	...	...	...	...	...
1956	10/1	...	...	...	...	...	...
1956	10/15	...	...	...	...	...	...
1956	11/1	...	...	...	...	...	...
1956	11/15	...	...	...	...	...	...
1956	12/1	...	...	...	...	...	...
1956	12/15	...	...	...	...	...	...
1957	1/1	...	...	...	...	...	...
1957	1/15	...	...	...	...	...	...
1957	2/1	...	...	...	...	...	...
1957	2/15	...	...	...	...	...	...
1957	3/1	...	...	...	...	...	...
1957	3/15	...	...	...	...	...	...
1957	4/1	...	...	...	...	...	...
1957	4/15	...	...	...	...	...	...
1957	5/1	...	...	...	...	...	...
1957	5/15	...	...	...	...	...	...
1957	6/1	...	...	...	...	...	...
1957	6/15	...	...	...	...	...	...
1957	7/1	...	...	...	...	...	...
1957	7/15	...	...	...	...	...	...
1957	8/1	...	...	...	...	...	...
1957	8/15	...	...	...	...	...	...
1957	9/1	...	...	...	...	...	...
1957	9/15	...	...	...	...	...	...
1957	10/1	...	...	...	...	...	...
1957	10/15	...	...	...	...	...	...
1957	11/1	...	...	...	...	...	...
1957	11/15	...	...	...	...	...	...
1957	12/1	...	...	...	...	...	...
1957	12/15	...	...	...	...	...	...

Table 88 continued.

Item 1	Unit Cost		Units used per acre 4	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955	1953
	2	3		5	6	119 acres 7	216 acres 8
Contracts:							
Fertilize (NH <sub>3</sub> ) 1955			70 lbs	8.60		1,023.40	
(NH <sub>3</sub> ) 1953			55 lbs		7.03		1,518.48
Hand thin				5.00	5.00	595.00	1,080.00
Hand weed				5.00	5.00	595.00	1,080.00
Dust 2X(5%DDT-50% sulfur)			60 lbs	8.04	8.04	956.76	1,736.64
Defoliate(NaClO <sub>3</sub> w/Borate or Mg.)			10 lbs	4.25	4.25	505.75	918.00
Gin 1955 14.70	14.70		2.1 bale	30.87		3,673.53	
1953 14.70		14.70	1.75 bale		25.72		5,555.52
Insur. & storage 1955 1.19	1.19		2.1 bale	2.50		297.50	
1953 1.19		1.19	1.75 bale		2.08		449.28
Interest on operating capital				2.47	2.18	293.96	470.00
Total operating				143.45	126.27	17,070.39	27,273.01
Total cost				200.64	170.46	23,933.29	36,949.19

a/ Total does not equal amount per acres multiplied by acres  
due to adjustment for non-crop acres.

# THE HISTORY OF THE

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Table 89. Inputs and Costs for Producing Milo on 320-3  
1955 Yield: 30 cwt

Item 1	Unit Cost		Units used per acre 4	Cost per Acre		Total Cost	
	1955 2	1953 3		1955 5	1953 6	1955 55 acres 7	1953 acres 8
Overhead:							
Real estate taxes				3.25 <sup>b</sup> /		201.50 <sup>a</sup> /	
Office				.50 <sup>b</sup> /		28.00 <sup>a</sup> /	
Improvements				.97 <sup>b</sup> /		54.33 <sup>a</sup> /	
Power				8.35		459.25	
Equipment				4.91		270.05	
Irrigation water				6.91		380.05	
Total overhead				24.89		1,393.18	
Operating:							
Power:							
Tractor T-5D	.890		1.32 hr	1.17		64.35	
Tractor W-2	.845		1.28 hr	1.08		59.40	
Pickup	.039		25.745 mi	1.00		55.00	
Truck	.057		14.409 mi	.82		45.10	
Equipment:							
5' ditcher	.089		.20 hr	.02		1.10	
10' scraper	.332		.20 hr	.07		3.85	
10 1/2 offset disk	.514		.92 hr	.47		25.85	
12' cultipacker	.016		.32 hr	.01		.55	
4 row lister	1.207		.25 hr	.30		16.50	
4 row lister planter	1.030		.30 hr	.31		17.05	
4 row cultivator	.798		.73 hr	.58		31.90	
Materials:							
Irrigation water	.542		27 ac"	14.63		804.65	
Seed	.08		10 lbs	.80		44.00	
Labor:							
Driver	1.00		3.72 hr	3.72		204.60	
Irrigator	.90		3.375 hr	3.04		167.20	
General	.90		.30 hr	.27		14.85	
Soc. Sec. & Comp. Insur.				.41		22.43	
Contracts:							
Harvest				6.00		330.00	
Haul	.10		30 cwt	3.00		165.00	
Storage	.144		30 cwt	4.32		237.60	
Insurance (\$1.50 per \$100.00 of value)			30 cwt	1.03		56.92	
Interest on operating capital				.98		54.08	
Total operating				44.03		2,421.98	
Total cost				68.92		3,815.16	

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.

b/ Because of double crop, one-half of the rate allocated to each group.

Account	Debit	Credit	Balance	Description
1000				General Fund
1010				Salaries
1020				Benefits
1030				Travel
1040				Supplies
1050				Utilities
1060				Insurance
1070				Depreciation
1080				Interest
1090				Other
2000				Capital Assets
2010				Land
2020				Buildings
2030				Equipment
2040				Other
3000				Liabilities
3010				Accounts Payable
3020				Long-Term Debt
3030				Other
4000				Equity
4010				Retained Earnings
4020				Other

The above information is for informational purposes only and should not be used for financial reporting. The actual financial results may vary due to rounding and other factors.



Table 90. Inputs and Costs for Producing Potatoes on 320-3  
1955 Yield: 290 cwt 1953 Yield: 290 cwt

Item	Unit Cost		Units used per acre	Cost per Acre		Total Cost	
	1955	1953		1955	1953	1955 62 acres	1953 70 acres
1	2	3	4	5	6	7	8
<b>Overhead:</b>							
Real estate taxes				6.50	6.50	448.50a/	565.50a/
Office				1.00	1.00	63.00a/	77.00a/
Improvements				1.94	1.94	122.24a/	149.40a/
Power				11.44	9.94	709.28	695.80
Equipment				6.34	5.59	393.08	391.30
Irrigation water				9.22	9.47	571.64	662.90
Total overhead				36.44	34.44	2,307.74	2,541.90
<b>Operating:</b>							
<b>Power:</b>							
Tractor T-5D	.890	.834	2.71 hr	2.41	2.26	149.42	158.20
Tractor W-2	.845	.878	2.68 hr	2.26	2.35	140.12	164.50
Pickup 1955	.039		25.742 mi	1.00		62.00	
1953		.039	23.90 mi		.93		65.10
Truck 1955	.057		14.409 mi	.82		50.84	
1953		.057	17.482 mi		1.00		70.00
<b>Equipment:</b>							
5' ditcher	.089	.069	.10 hr	.01	.01	.62	.70
10' scraper	.332	.256	.10 hr	.03	.03	1.86	2.10
2 way/2-16" plow	1.436	1.271	.75 hr	1.08	.95	66.96	66.50
8' chisel	.312	.187	.56 hr	.17	.10	10.54	7.00
10 1/2' offset disk	.514	.618	1.20 hr	.62	.74	38.44	51.80
12' spiketooth harrow	.016	.031	.20 hr	.003	.01	.19	.70
2 row cultivator	.841	.532	.90 hr	.76	.48	47.12	33.60
2 row potato planter	.882	.781	1.28 hr	1.13	1.00	70.06	70.00
6' steel roller	.538	.477	.30 hr	.16	.14	9.92	9.80
<b>Materials:</b>							
Irrigation water	.543	.547	36 ac"	19.51	19.69	1,209.62	1,378.30
Seed	6.30	6.30	16 cwt	100.80	100.80	6,249.60	7,056.00
Fertilizer (17-7-0)			800 lbs	30.00	30.00	1,860.00	2,100.00
<b>Labor:</b>							
Drivers 1955	1.00		6.51 hr	6.51		403.62	
1953		1.00	6.57 hr		6.57		459.90
Irrigators	.90	.90	4.50 hr	4.05	4.05	251.10	283.50
General	.90	.90	1.28 hr	1.15	1.15	71.30	80.50
Soc. Sec. & Comp. Insur.				.68	.68	42.11	47.79
<b>Contracts:</b>							
Dust(5%DDT-50% Sulfur)			30 lbs	4.05	4.05	251.10	283.50
Roto beat				3.00	3.00	186.00	210.00
Dig				12.00	12.00	744.00	840.00
Pick	.16	.16	360 cwt	57.60	57.60	3,571.20	4,032.00
Haul	.075	.075	360 cwt	27.00	27.00	1,674.00	1,890.00
Shed	.55	.55	290 cwt	159.50	159.50	9,889.00	11,165.00
Interest on operating capital				4.27	4.27	264.57	298.24
Total operating				440.57	440.35	27,315.31	30,824.73
Total cost				477.01	474.79	29,623.05	33,366.63

a/ Total does not equal amount per acres multiplied by acres due to adjustment for non-crop acres.



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Table 91. Farm Product Selling Prices, 1953 and 1955

<u>Product</u>	<u>Unit</u>	<u>1955</u>	<u>1953</u>
Alfalfa hay	ton	\$ 26.00	\$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt	2.15	2.70
Corn	cwt	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt	2.30	2.75
Potatoes (early)	cwt	1.85	1.42
Sugar beets	ton	13.50	13.50





Table 92. Farm Service Purchasing Prices, 1953-1955

<u>Labor Rates</u>		<u>Contract Services (continued)</u>	
Tractor driver	\$1.00 per hr.	Dust (5% DDT - 75% S)- (application)	lb. \$ .04
Pickup driver	1.00 per hr.	Defoliate (1 qt. sinxo in 10 gal. diesel oil)-(appln.)	acre 2.50
Truck driver	1.00 per hr.	Dust (2% Parathion)-(appln.)	lb. .05
Irrigator	.90 per hr.		
General	.90 per hr.		
Compensation Insur.	3.8% of labor cost	<u>Barley</u>	
Social Security	2.0% of labor cost	Harvest	acre 5.00
		Haul	cwt .10
		Storage	cwt .144
		Insurance	\$1.50 per \$100 of Value
<u>Equipment Rentals</u>		<u>Corn</u>	
4' ditcher	\$ .50 per hr.	Chop, haul, unload	ton 2.25
4' scraper	.50 per hr.	Shell	cwt .125
10' x 60' landplane	2.00 per hr.	Pick	acre 10.00
Border disk	.50 per hr.	Haul	cwt .10
12' springtooth	.50 per hr.	Dry	cwt .175
2 row planter	.50 per hr.	Storage	cwt .144
Fertilizer attachment	.50 per hr.	Insurance	\$1.50 per \$100 of Value
Fertilizer spreader	1.00 per hr.	Fertilize (NH <sub>3</sub> )-(appln.)	acre 1.75
Stalk cutter	1.00 per hr.		
Broadcaster	.25 per hr.		
		<u>Cotton</u>	
<u>Contract Services</u>		Hand thin	acre 5.00
<u>Alfalfa</u>		Hand weed	acre 5.00
Bale	ton 3.50	Pick (hand)	bale 42.00
Roadside	ton 1.75	Pick (machine)	bale 24.50
Bees	colony 5.00	Gin	bale 14.70
Weed	acre 15.00	Insurance & Storage	bale 1.19
Harvest	lb. .03	Dust (5% DDT - 50% S)- (application)	lb. .05
Certify	acre 10.12	Defoliate (NaClO <sub>3</sub> w/Borate or Mg)-(application)	acre 2.50
Box rental	acre 1.00	Fertilize (NH <sub>3</sub> )-(appln.)	acre 1.50
Fertilize (super phos- phate)-(appln.)	acre 1.10	Gypsum - (application)	ton 1.50

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample size, the data collection methods, and the statistical analysis techniques.

3. The third part of the report is a discussion of the results of the study. It presents the findings of the research and discusses their implications for the field of study.

4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the main findings of the study, and the references list the sources of information used in the research.

5. The fifth part of the report is a list of appendices. These appendices contain additional information that is relevant to the study but is not included in the main body of the report.

6. The sixth part of the report is a list of figures and tables. These figures and tables provide a visual representation of the data collected during the study.

7. The seventh part of the report is a list of footnotes. These footnotes provide additional information about the sources of the data and the methods used in the study.

8. The eighth part of the report is a list of abbreviations. These abbreviations are used throughout the report to simplify the language and to make it easier to read.

9. The ninth part of the report is a list of acknowledgments. These acknowledgments thank the people and organizations that have supported the study and provided assistance during the research process.

10. The tenth part of the report is a list of references. These references list the sources of information used in the research and provide a way for readers to find the original sources of the data.

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12. The twelfth part of the report is a list of footnotes. These footnotes provide additional information about the sources of the data and the methods used in the study.

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17. The seventeenth part of the report is a list of footnotes. These footnotes provide additional information about the sources of the data and the methods used in the study.

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19. The nineteenth part of the report is a list of acknowledgments. These acknowledgments thank the people and organizations that have supported the study and provided assistance during the research process.

20. The twentieth part of the report is a list of references. These references list the sources of information used in the research and provide a way for readers to find the original sources of the data.

Table 92. Farm Service Purchasing Prices, 1953-1955

--continued--

Contract Services (continued)Melons

Turn vines	acre	\$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & Haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP - (appln.)	lb.	.05
Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.25

Milo

Harvest	acre	6.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	\$1.50 per \$100 of Value	

Potatoes

Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt	.16
Haul	cwt	.075
Shed costs	cwt	.55
Dust (5% DDT-50% S)- (application)	lb.	.05

Contract Services (continued)Sugar Beets

Thin	acre	\$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH <sub>3</sub> ) - (application)	acre	1.25

Preparing Seedbed

Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75



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*[Faint, illegible handwritten notes]*

• *Journal of the American Medical Association*, 1964, 191: 100-101.

1894, 1895, 1896.

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WILSON, JAMES H.

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation

1. *Chrysomelidae* (10 species)

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1. *Chlorophyll a* (Chl *a*)

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Table 93. Farm Supply Purchasing Prices, 1953-1955

<u>Alfalfa</u>			<u>Melons</u>		
Seed (common)	lb.	\$ .32	Seed	lb.	\$1.45
Seed (caliverde)	lb.	.34	Dust 5% DDT	lb.	.07
Seed (certified ranger)	lb.	.40	1% TEPP	lb.	.16
Fertilizer (super phosphate)	lb.	.020	Fertilizer (NH <sub>3</sub> )	lb.	.085
Dust (5% DDT - 75% S)	lb.	.0925	<u>Milo</u>		
Dust (2% Parathion)	lb.	.121	Seed	lb.	.08
Sinox Defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90	<u>Permanent Pasture</u>		
			Seed	lb.	.50
			Fertilizer (16-20)	lb.	.045
<u>Barley</u>			<u>Potatoes</u>		
Seed	lb.	.04	Seed (cut & dipped)	cwt	6.30
<u>Corn</u>			Fertilizer (17-7-0)	lb.	.0375
Seed	lb.	.26	Dust (5% DDT - 50% S)	lb.	.085
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032	<u>Sugar Beets</u>		
Fertilizer (NH <sub>3</sub> )	lb.	.105	Seed	lb.	.46
<u>Cotton</u>			Fertilizer (NH <sub>3</sub> )	lb.	.095
Seed (acid delinted)	lb.	.115			
Seed (machine delinted)	lb.	.081			
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032			
Dust (5% DDT - 50% S)	lb.	.085			
Defoliant (NaClO <sub>3</sub> w/Borate or Mg)	lb.	.175			
Fertilizer (NH <sub>3</sub> )		a/			
Gypsum	ton	2.50			

a/ \$ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .085/lb. for 50 tons and over.







Division of Agricultural Sciences  
UNIVERSITY OF CALIFORNIA

# **INPUTS AND COSTS FOR PRODUCING FIELD CROPS**

**(A Statistical Supplement to Farm  
Adjustments and Earnings Under  
1955 Cotton Acreage Allotments)**

## **3. San Joaquin Valley Eastside Cotton Farms, 1953-1955**

Douglas D. Caton  
Trimble R. Hedges  
W. Neill Schaller

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GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS**

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May 1958



INPUTS AND COSTS FOR PRODUCING FIELD CROPS  
(A Statistical Supplement to Farm Adjustments and  
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3. San Joaquin Valley Eastside Cotton Farms, 1953-1955

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California Agricultural Experiment Station, Giannini Foundation of  
Agricultural Economics, in Cooperation with Farm Economics Research  
Division, Agricultural Research Service, U. S. Department of Agriculture



THE UNITED STATES OF AMERICA  
DO hereby certify that  
the within and foregoing is a true and correct copy  
of the original as the same appears on the records of the  
Department of the Interior.

WITNESSED my hand and the seal of the Department of the Interior at Washington, D. C., this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

1

Approved: \_\_\_\_\_, Secretary of the Interior.

Approved: \_\_\_\_\_, U. S. Department of the Interior.

## ACKNOWLEDGEMENTS

This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the San Joaquin Valley Eastside resulted from a study by the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Farm Economics Research Division, Agricultural Research Service, United States Department of Agriculture.

H. Russell Shaw, Assistant Professor of Agricultural Economics, Assistant Agricultural Economist in the Experiment Station, and on the Giannini Foundation contributed heavily in collecting the field data, as did Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation. The latter also shared in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head Western Field Research Section, and M. L. Upchurch, Head Western Field Research Section, all of the Farm Economics Research Division, participated in outlining and developing the project research plans. In addition, Mr. Crecink assisted in collecting field data.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

Finally the credit for the statistical and stenographic work goes to personnel in the Giannini Foundation.

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1950-1951

Costs of Survey and General

Land Area, Total Cotton Area, and Cotton Bivert, 1950-1951

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Inputs and Costs for Crops on 200-250 Acre Farm

Inputs and Costs for Crops on 250-300 Acre Farm

Land Product Allocation, 1950-1951 and 1952-1953

# INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings  
Under 1955 Cotton Acreage Allotments)

3. San Joaquin Valley Eastside Cotton Farms; 1953-1955<sup>a/</sup>

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller<sup>b/</sup>

## FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the San Joaquin Valley Eastside. We obtained these data by interviewing farmers and agencies serving farmers, and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160-, and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes.

Table 1 indicates the range in soil quality in the San Joaquin Valley Eastside, according to the Storie Index and soil survey classifications. The two tables following deal with farm size and aggregate cropland use from 1953 through 1955. Succeeding tables are concerned with the three farm models we analyzed. The data for the 80-acre farm will serve to indicate the kind and amount of information that this report includes for each of these three farm sizes. First appears Table 4 with data on farm resources; Tables 5-8 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 9-12 present production cost information for these crops. This same listing applies to the 160-acre farms (Tables 13-21) and the 320-acre units (Tables 22-34). In addition to these farm-oriented data, we list in the final tables price and cost information for the farm products and the principal production materials and services.

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<sup>a/</sup> This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 3. San Joaquin Valley Eastside Cotton Farms, Giannini Mimeographed Report No. 202, the third of a series based on detailed investigations of the changes in farm organization, production and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(w), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

<sup>b/</sup> Douglas D. Caton and W. Neill Schaller are Agricultural Economists, Farm Economics Research Division, Western Field Research Section, Agricultural Research Service, U. S. Department of Agriculture, and Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.



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## 6/11/55

TABLE 1

Soils by Survey Areas and Grades  
San Joaquin Valley Eastside

Soil classification		Soil Survey Areas									
		Fresno		Hanford		Pixley		Visalia		Total	
Grade	Index	acres	per cent of total	acres	per cent of total	acres	per cent of total	acres	per cent of total	acres	per cent by grades
1	2	3	4	5	6	7	8	9	10	11	12
I	90 - 100	39,424	4.5			90,176	15.7	108,736	20.0	238,336	57.8
	80 - 89			81,260	58.8	29,824	5.2	62,848	11.6	173,932	42.2
	Subtotal	39,424	4.5	81,260	58.8	120,000	20.9	171,584	31.6	412,268	100.0
	Percent of Area Total										19.4
II	70 - 79	6,016	.7	6,754	4.9	83,392	14.5	43,776	8.0	139,938	38.8
	60 - 69	76,032	8.8	33,748	24.4	46,784	8.2	64,192	11.8	220,756	61.2
	Subtotal	82,048	9.5	40,502	29.3	130,176	22.7	107,968	19.8	360,694	100.0
	Percent of Area Total										17.0
III	50 - 59	212,032	24.4			94,272	16.4	33,984	6.2	340,288	55.3
	40 - 49	225,280	26.0			33,088	5.8	17,152	3.2	275,520	44.7
	Subtotal	437,312	50.4			127,360	22.2	51,136	9.4	615,808	100.0
	Percent of Area Total										29.0
IV	20 - 39	257,856	29.7	5,470	4.0	41,728	7.3	102,464	18.8	407,518	55.4
V	10 - 19	2,624	.3	8,768	6.3	120,256	20.9	28,608	5.3	160,256	21.8
VI	0 - 10	48,576	5.6	2,240	1.6	34,560	6.0	82,240	15.1	167,616	22.8
	Subtotal	309,056	35.6	16,478	11.9	196,544	34.2	213,312	39.2	735,390	100.0
	Percent of Area Total										34.6
Total		867,840	100.0	138,240	100.0	574,080	100.0	544,000	100.0	2,124,160	100.0

Sources: Soil Survey of the Fresno Area, Calif., U. S. Bureau of Soils.  
 Soil Survey of the Hanford Area, Calif., U. S. Bureau of Soils.  
 Soil Survey of the Pixley Area, Calif., U. S. Bureau of Plant Industry.  
 Soil Survey of the Visalia Area, Calif., U. S. Bureau of Plant Industry.





TABLE 2

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955:  
San Joaquin Valley Eastside

Cropland class intervals	Number of farms	Cropland		Total cotton acres			Diverted acres		
		Average per farm	Total	3-year average 1951-1953	1953	Final allotment 1954	Acres planted 1955 <sup>a/</sup>	3-year average to 1954	3-year average to 1955
1	2	3	4	5	6	7	8	9	10
					acres				
1 - 20	3,424	12.7	43,520	27,086	26,725	30,539	24,238	3,453	- 2,848
21 - 60	3,805	37.5	105,160	63,975	60,599	45,010	35,729	- 18,965	- 28,246
61 - 100	1,119	78.0	87,298	52,096	48,490	34,028	27,026	- 18,068	- 25,070
101 - 220	1,168	149.0	174,054	99,009	90,784	64,610	51,299	- 34,399	- 47,710
221 - 420	593	298.2	176,858	98,806	90,161	63,889	50,721	- 34,917	- 48,085
421 - 660	237	518.1	122,798	61,518	54,661	40,813	32,398	- 20,705	- 29,121
661 - 1,100	141	842.1	118,735	58,769	54,763	39,122	31,071	- 19,647	- 27,698
1,100 + above	122	4,181.6	511,373	164,109	157,217	110,183	87,469	- 53,926	- 76,640
Total	9,609	139.4	1,339,796	625,368	534,910	428,194	339,950	-197,174	-285,418

<sup>a/</sup> Estimated.

Source: California Agricultural Stabilization and Conservation Committee.



TABLE 3

Land Use on Cotton Farms, 1953-1955:  
San Joaquin Valley Eastside

Cropland class intervals	Mid- point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
					number	total	number	total	total	average
			total	average	reporting	acres	reporting	acres	acres reported	acres per farm
1	2	3	4	5	6	7	8	9	10	11
1 - 20	10	546	7,114	13.0	355	4,915	160	801	12,830	23.5
21 - 60	40	612	22,949	37.5	292	5,201	224	1,714	29,864	48.8
61 - 100	80	255	20,032	78.6	83	2,159	78	1,354	23,545	92.3
101 - 220	100	254	38,212	150.4	82	3,924	85	3,047	45,183	177.9
221 - 420	320	120	35,192	293.3	29	881	41	6,509	42,582	354.8
421 - 660	540	51	25,751	504.9	7	763	17	1,873	28,387	556.6
661 - 10,000	5,330	67	111,932	1,670.6	10	4,960	28	23,057	139,949	2,088.8
Total		1,905	261,182	137.1	858	22,803	633	38,355	322,340	169.2

Source: Questionnaire returns, 1954.





TABLE 4

Physical Resources and Investments for Typical 80-acre Farm,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
1	2	3	4	5	6	7
dollars						
<b>Land:</b>						
Total	80 acres					
Total cultivated	74 acres					
<b>Irrigation system:</b>						
Pumping plant	30 h.p.; 1000 g.p.m.	1		3,000.00		1,537.50
Well, casing	12" diameter; 80' lift	200'	4.15	830.00	2.08	415.00
Pipe	12"	1,380'	.80	1,104.00	.40	552.00
Standards	7' - 36"	1		63.00		31.50
Vents	7' - 8"	2	4.90	9.80	2.45	4.90
Alfalfa valves	10"	12	15.00	180.00	7.50	90.00
Siphons	1" - 2"	150	1.50	225.00	.75	112.50
Subtotal				5,411.80		2,743.40
<b>Power:</b>						
Wheel tractor	W-1 (20-25 h.p.)	1		2,000.00		1,400.00
Wheel tractor	W-2 (25-35 h.p.)	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				7,000.00		4,700.00
<b>Equipment:</b>						
Plow, 2 way	2 - 14"	1		453.00		226.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	10'	1		700.00		350.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Planter	4 row	1		500.00		250.00
Cultivator	4 row	1		1,000.00		500.00
Cotton trailer	4 bale	3	350.00	1,050.00	192.50	577.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Ditcher b/	4'	1		135.00		67.50
Scraper b/	8'	1		485.00		242.50
Subtotal				6,258.00		3,181.50
Total				18,669.80		10,624.90

a/  $\frac{\text{New cost} + \text{Salvage value}}{2}$ 

2

No salvage values, except as follows:

W-1 tractor: \$ 800

4-bale cotton

W-2 tractor: \$1,200

trailers: \$ 35 each

Pickup truck: \$ 400

Pumping plant: \$ 75

b/ Standby equipment owned but not used in 1953 or 1955.

Source: Calculated from survey data.

Typical Resources and Investments for Typical 40-acre Farm

Item	Quantity	Unit Cost	Total Cost	Item	Quantity	Unit Cost	Total Cost
Land	40	100.00	4,000.00	Land	40	100.00	4,000.00
Water	100	10.00	1,000.00	Water	100	10.00	1,000.00
Buildings	10	100.00	1,000.00	Buildings	10	100.00	1,000.00
Equipment	10	100.00	1,000.00	Equipment	10	100.00	1,000.00
Seeds	10	10.00	100.00	Seeds	10	10.00	100.00
Fertilizer	10	10.00	100.00	Fertilizer	10	10.00	100.00
Pesticides	10	10.00	100.00	Pesticides	10	10.00	100.00
Labor	10	10.00	100.00	Labor	10	10.00	100.00
Interest	10	10.00	100.00	Interest	10	10.00	100.00
Depreciation	10	10.00	100.00	Depreciation	10	10.00	100.00
Other	10	10.00	100.00	Other	10	10.00	100.00
<b>Total</b>	<b>100</b>	<b>100.00</b>	<b>10,000.00</b>	<b>Total</b>	<b>100</b>	<b>100.00</b>	<b>10,000.00</b>

Notes: 1. All costs are in dollars.

2. The values are based on the following assumptions: (a) The farm is a 40-acre farm. (b) The farm is a typical 40-acre farm. (c) The farm is a typical 40-acre farm. (d) The farm is a typical 40-acre farm. (e) The farm is a typical 40-acre farm. (f) The farm is a typical 40-acre farm. (g) The farm is a typical 40-acre farm. (h) The farm is a typical 40-acre farm. (i) The farm is a typical 40-acre farm. (j) The farm is a typical 40-acre farm. (k) The farm is a typical 40-acre farm. (l) The farm is a typical 40-acre farm. (m) The farm is a typical 40-acre farm. (n) The farm is a typical 40-acre farm. (o) The farm is a typical 40-acre farm. (p) The farm is a typical 40-acre farm. (q) The farm is a typical 40-acre farm. (r) The farm is a typical 40-acre farm. (s) The farm is a typical 40-acre farm. (t) The farm is a typical 40-acre farm. (u) The farm is a typical 40-acre farm. (v) The farm is a typical 40-acre farm. (w) The farm is a typical 40-acre farm. (x) The farm is a typical 40-acre farm. (y) The farm is a typical 40-acre farm. (z) The farm is a typical 40-acre farm.

3. The values are based on the following assumptions: (a) The farm is a 40-acre farm. (b) The farm is a typical 40-acre farm. (c) The farm is a typical 40-acre farm. (d) The farm is a typical 40-acre farm. (e) The farm is a typical 40-acre farm. (f) The farm is a typical 40-acre farm. (g) The farm is a typical 40-acre farm. (h) The farm is a typical 40-acre farm. (i) The farm is a typical 40-acre farm. (j) The farm is a typical 40-acre farm. (k) The farm is a typical 40-acre farm. (l) The farm is a typical 40-acre farm. (m) The farm is a typical 40-acre farm. (n) The farm is a typical 40-acre farm. (o) The farm is a typical 40-acre farm. (p) The farm is a typical 40-acre farm. (q) The farm is a typical 40-acre farm. (r) The farm is a typical 40-acre farm. (s) The farm is a typical 40-acre farm. (t) The farm is a typical 40-acre farm. (u) The farm is a typical 40-acre farm. (v) The farm is a typical 40-acre farm. (w) The farm is a typical 40-acre farm. (x) The farm is a typical 40-acre farm. (y) The farm is a typical 40-acre farm. (z) The farm is a typical 40-acre farm.



TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton,  
80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
1	2	3	4	5	6	7	8	9	10
4/5 - 4/20	Cut stalks	1	W-1	2 row stalk cutter (rented)	18	.50	.50		
	Disk 2X	1	W-2	7-1/2' offset disk	25	.72	.72		
	Flow	1	W-2	2 way/2-14"	9	1.00	1.00		
	Border up	1	W-2	border disk (rented)	40	.22	.22		
	Preirrigate	1						6 ac.in.	8.4 ac.in.
	Disk 2X with harrow attached	1	W-2	10' tandem disk plus 12' spiketooth harrow	24	.76	.76		
	Plant	2	W-2	4 row planter	29	.62	.31	30# delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - Contract								
6/15 - 7/1	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41	74# (N)	100# (N)
	Fertilize - Contract								
	Cultivate (3)	1	W-2	4 row cultivator	22	.41	.41	6 ac.in.	6 ac.in.
	Irrigate (1)	1							
	Hand weed - Contract								
6/15 - 8/15	Cultivate (4)	1	W-2	4 row cultivator	26	.35	.35	6 ac.in.	6 ac.in.
	Irrigate (2)	1						60# of 5% DDT 50% S	
	Dust 2X - Contract								
7/10 - 7/20	Cultivate and lay by (5)	1	W-2	4 row cultivator	26	.35	.35		
7/20 - 9/5	Irrigate 3X (3-5)	1						18 ac.in.	18 ac.in.
9/15 - on	Pick 1st - hand - Contract								
11/15 - on	Pick 2nd - hand - Contract								
9/15 - on	Haul to gin	1	Pick- up	4 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

Source: Calculated from survey data.



TABLE 6  
Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa,  
80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
		3	4	5		7	8	9
4/5 - 4/15	Irrigate 1X	1						5.5 ac. in.
	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
5/15 - 5/25	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
6/20 - 6/30	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
7/20 - 7/30	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
9/25 - 10/10	Irrigate 2X	1						8 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.

Source: Calculated from survey data.





TABLE 7

Calendar of Operations and Physical Inputs Per Acre to Establish an Alfalfa Stand,  
80-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
2/1 - 3/15	Disk 2X	1	W-2	10' tandem disk	28	.64	.64	
	Chisel 2X - Contract							
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	W-2	7-1/2' offset disk	25	.36	.36	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-2	7-1/2' offset disk w/8' spiketooth	22	.41	.41	
	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth	40	.22	.22	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.

[illegible]



TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn,  
80-acre Farm

Dates	Operations	Crew and Equipment		Acres per 9-hour day	Physical requirements		
		Men	Power		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8
	Disk 2X	1	W-2	7-1/2' offset disk	25	.72	.72
	Plow	1	W-2	2 way/2-14"	9	1.00	1.00
	Border up	1	W-2	border disk (rented)	40	.22	.22
	Preirrigate	1					7 ac. in.
	Disk 2X w/harrow attached	1	W-2	10' tandem disk w/12' spiketooth	24	.76	.76
3/25 - 4/10	Plant	2	W-2	4 row planter	28	.64	.32
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	18	.50	.50
	Cultivate	1	W-2	4 row cultivator	20	.45	.45
	Fertilize - Contract						119# (N)
5/5 - 5/15	Irrigate (1)	1					4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	20	.90	.90
5/30 - 8/20	Irrigate 7X (2-8)	1					28 ac. in.
9/15 - on	Pick and haul - Contract						
10/1 - on	Shell - Contract						

Source: Calculated from survey data.

0.0025A, 1.00

25. 1790-1800

1177 4. 1. 1977

1000 1000  
1000 1000

TABLE 9

Inputs and Costs for Producing Cotton,  
80-acre Farm

Item	1953				1955			
	Acres: 51 — Yield: 1.1 bales				Acres: 26 — Yield: 1.4 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.34	374.40		6.50	7.40	192.40
Office		2.03	2.12	108.00		2.03	2.13	55.50
Power			18.34	935.34			23.18	602.68
Equipment			15.40	785.40			23.83	619.58
Irrigation water			6.88	350.88			6.72	174.72
Total Fixed			50.08	2,554.02			63.26	1,644.88
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1	.77 hr.	1.19	.92	46.92	.77 hr.	1.05	.81	21.06
Tractor W-2	4.98 hr.	.87	4.32	220.32	4.98 hr.	.97	4.83	125.58
Pickup truck	123 mi.	.04	4.67	238.17	156 mi.	.04	5.94	154.44
<b>Equipment (owned):</b>								
Plow, 2w/2-14"	1.00 hr.	1.33	1.33	67.83	1.00 hr.	1.89	1.89	49.14
7 1/2' offset disk	.72 hr.	2.41	1.73	88.23	.72 hr.	3.01	2.17	56.42
10' tandem disk	.76 hr.	2.50	1.90	96.90	.76 hr.	3.20	2.43	63.18
12' spiketooth harrow	.76 hr.	.04	.03	1.53	.76 hr.	.06	.04	1.04
10' cultipacker	.27 hr.	2.36	.64	32.64	.27 hr.	4.63	1.25	32.50
4-row planter	.31 hr.	.63	.20	10.20	.31 hr.	.89	.28	7.28
4-row cultivator	1.97 hr.	1.99	3.92	199.92	1.97 hr.	2.87	5.65	146.90
4-bale cotton trailer	1.50 hr.	.41	.62	31.62	1.50 hr.	.81	1.21	31.46
<b>Equipment (rented):</b>								
Border disk	.22 hr.	.50	.11	5.61	.22 hr.	.50	.11	2.86
2-row stalk outter	.50 hr.	1.00	.50	25.50	.50 hr.	1.00	.50	13.00
<b>Materials:</b>								
Irrigation water	36 ac"	.28	10.19	519.69	38.4 ac"	.27	10.37	269.62
Seed (acid delint)	30 lb.	.08	2.40	122.40	30 lb.	.08	2.40	62.40
<b>Labor:</b>								
Drivers	10.19 hr.	1.00	10.19	519.69	10.98 hr.	1.00	10.98	285.48
Irrigator	16.20 hr.	.90	14.58	743.58	17.28 hr.	.90	15.55	404.30
General	.31 hr.	.90	.28	14.28	.31 hr.	.90	.28	7.28
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.45	74.10			1.56	40.43
<b>Contracts:</b>								
Fertilize (N)	74 lb.		9.27	472.77	100 lb.		12.00	312.00
Hand thin			5.00	255.00			5.00	130.00
Hand weed			5.00	255.00			5.00	130.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	413.10	60 lb.	.13	8.10	210.60
Pick 2X - hand	1.1 bale	42.00	46.20	2,356.20	1.4 bale	42.00	58.80	1,528.80
Gin	1.1 bale	14.70	16.17	824.67	1.4 bale	14.70	20.58	535.08
Insur. & storage	1.1 bale	1.19	1.31	66.81	1.4 bale	1.19	1.67	43.42
Interest on operating capital <sup>c/</sup>			2.16	110.06			2.45	63.66
Total Variable			153.19	7,812.74			181.85	4,727.93
Total Cost			203.27	10,366.76			245.11	6,372.81

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5 percent

Source: Calculated from survey data.



Inputs and Costs for Fruit and Vegetable  
Production

Item	Cost per acre		Cost per unit		Cost per unit		Cost per unit	
	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit
Land	100.00	acre	100.00	acre	100.00	acre	100.00	acre
Water	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Electricity	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Gasoline	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Fertilizer	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Pesticides	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Labor	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Transportation	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Marketing	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Interest	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Insurance	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Depreciation	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Other	10.00	acre	10.00	acre	10.00	acre	10.00	acre
Total	100.00	acre	100.00	acre	100.00	acre	100.00	acre

Cost of variable costs (loss operator labor, planting, and picking) ÷ 2 x 25 percent  
 Total cost = 25.00

TABLE 10

Inputs and Costs for Producing Alfalfa,  
80-acre Farm

Item	1953				1955			
	Acres: 20 — Yield: 6.0 tons				Acres: 34 — Yield: 6.25 tons			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	7.28	145.60		6.50	7.49	254.80
Office		2.03	2.10	42.00		2.03	2.16	73.50
Power			13.62	272.40			12.33	419.22
Equipment			7.18	143.60			4.74	161.16
Irrigation water			9.74	194.80			8.92	303.28
1/4 cost to establish stand			12.60	252.08			13.19	448.34
<b>TOTAL FIXED</b>			52.52	1,050.48			48.83	1,660.30
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1	3.60 hr.	1.19	4.28	85.60	3.60 hr.	1.05	3.77	128.18
Pickup truck	61 mi.	.04	2.34	46.80	78 mi.	.04	2.97	100.98
<b>Equipment:</b>								
7' power mower	1.86 hr.	.94	1.75	35.00	1.86 hr.	.55	1.03	35.02
8' side delivery rake	1.74 hr.	1.49	2.60	52.00	1.74 hr.	.88	1.53	52.02
<b>Materials:</b>								
Irrigation water	51 ac"	.28	14.43	288.60	51 ac"	.27	13.77	468.18
<b>Labor:</b>								
Drivers	5.14 hr.	1.00	5.14	102.80	5.55 hr.	1.00	5.55	188.70
Irrigators	22.95 hr.	.90	20.66	413.20	22.95 hr.	.90	20.66	702.44
Soc. Sec. & Comp. Insur. <u>b/</u>			1.50	29.93			1.52	51.69
<b>Contracts:</b>								
Bale	6.0 ton	3.50	21.00	420.00	6.25 ton	3.50	21.88	743.92
Roadside	6.0 ton	1.75	10.50	210.00	6.25 ton	1.75	10.94	371.96
<b>Total variable</b>			84.20	1,683.93			83.62	2,843.09
<b>Total cost</b>			136.72	2,734.41			132.45	4,503.39

a/ Rounded.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.





TABLE 11

Inputs and Costs for Establishing an Alfalfa Stand,  
80-acre Farm

Item	1953				1955			
	Acres: 20				Acres: 34			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>Power:</b>								
W-1 tractor	.44 hr.	3.98	1.75	35.00	.44 hr.	3.21	1.41	47.94
W-2 tractor	1.41 hr.	2.69	3.79	75.80	1.41 hr.	3.47	4.89	166.26
<b>Equipment:</b>								
7 1/2' offset disk	.77 hr.	4.61	3.55	71.00	.77 hr.	5.77	4.44	150.96
10' tandem disk	.64 hr.	4.80	3.07	61.40	.64 hr.	6.14	3.93	133.62
8' spiketooth harrow	.41 hr.	.18	.07	1.40	.41 hr.	.24	.10	3.40
12' spiketooth harrow	.22 hr.	.27	.06	1.20	.22 hr.	.35	.08	2.72
Broadcasters (rented)	.22 hr.	.25	.06	1.20	.22 hr.	.25	.06	2.04
<b>Materials:</b>								
Irrigation water	8 ac"	.47	3.79	75.80	8 ac"	.45	3.56	121.04
Seed	25 lb.	.34	8.50	170.00	25 lb.	.34	8.50	269.00
<b>Labor:</b>								
Drivers	1.85 hr.	1.00	1.85	37.00	1.85 hr.	1.00	1.85	62.90
Irrigators	3.60 hr.	.90	3.24	64.80	3.60 hr.	.90	3.24	110.16
Soc. Sec. & Comp. Insur. <u>b/</u>			.30	5.90			.30	10.04
<b>Contracts:</b>								
Chisel 2X			5.50	110.00			5.50	187.00
Landplane 2X			12.00	240.00			12.00	408.00
Make borders			.75	15.00			.75	25.50
Dust (2% Parathion)	12.5 lb.		2.14	42.80	12.5 lb.		2.14	72.76
Total Cost			50.42	1,008.30			52.75	1,793.34
Amount Charged Off Annually			12.60	252.08			13.19	448.34

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

Inputs and Costs for Production of Wheat (cont.)

Input	1960-61		1961-62		1962-63		1963-64		1964-65		1965-66	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Seed (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Fertilizer (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Pesticides (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Water (inches)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Harvesting (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Transportation (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Marketing (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
Total (lb./acre)	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41

1. The above data are based on the best available information and are subject to revision as more data become available.

2. The above data are based on the best available information and are subject to revision as more data become available.

3. The above data are based on the best available information and are subject to revision as more data become available.

TABLE 12

Inputs and Costs for Producing Field Corn,  
80-acre Farm

Item	1955			
	Acres: 10 — Yield: 35 cwt			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.28	72.80
Office		2.03	2.10	21.00
Power			16.69	166.90
Equipment			13.00	130.00
Irrigation water			6.82	68.20
Total Fixed			45.89	458.90
<b>VARIABLE:</b>				
<u>Power:</u>				
Tractor W-2	4.87 hr.	.97	4.72	47.20
Pickup truck	78 mi.	.04	2.96	29.60
<u>Equipment:</u>				
Plow, 2w/2-14"	1.00 hr.	1.89	1.89	18.90
7 1/2' offset disk	.72 hr.	3.01	2.17	21.70
10' tandem disk	.76 hr.	3.20	2.43	24.30
12' spiketooth harrow	.76 hr.	.06	.04	.40
4-row planter	.32 hr.	.89	.28	2.80
4-row cultivator	1.85 hr.	2.87	5.31	53.10
Border disk (rented)	.22 hr.	.50	.11	1.10
<u>Materials:</u>				
Irrigation water	39 ac"	.27	10.53	105.30
Seed	10 lb.	.26	2.60	26.00
<u>Labor:</u>				
Drivers	6.82 hr.	1.00	6.82	68.20
Irrigators	17.55 hr.	.90	15.80	158.00
General	.32 hr.	.90	.29	2.90
Soc. Sec. & Comp. Insur. <u>b/</u>			1.33	13.29
<u>Contracts:</u>				
Fertilize (N)	119 lb.		14.25	142.50
Pick			10.00	100.00
Shell	35 cwt	.12	4.38	43.80
Haul	35 cwt	.10	3.50	35.00
Interest on operating capital <u>c/</u>			2.27	22.71
Total Variable			91.68	916.80
Total Cost			137.57	1,375.70

a/ Rounded.b/ 5.8% x total labor cost.c/ Total of variable costs (less operator labor) ÷ 2, x 5.5%.

Source: Calculated from survey data.



Inputs and Costs for Producing Field Corn,  
80-acre Farm

TABLE 12

1	2	3	4	5
Fixed:				
Real estate taxes		6.50	7.50	
Office		2.00	2.10	
Power			16.00	
Equipment			13.00	
Irrigation water			6.42	
Total fixed			45.02	
Variable:				
Seed	1.00			
Fertilizer (N)	1.00			
Fertilizer (P)	1.00			
Fertilizer (K)	1.00			
Herbicide	1.00			
Pesticide	1.00			
Tractor	1.00			
Harrow	1.00			
Plow	1.00			
Disc	1.00			
Roller	1.00			
Grain elevator	1.00			
Truck	1.00			
Gasoline	1.00			
Oil	1.00			
Lubricants	1.00			
Repairs	1.00			
Insurance	1.00			
Interest on operating capital	1.00			
Total variable				
Total cost				

2/ Total of variable costs (less operator labor) ÷ 24 x 84.00.

3/ 2.00 x total labor cost.

4/ Rounded.

TABLE 13

Physical Resources and Investments for Typical 160-acre Farm,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
1	2	3	4	5	6	7
dollars						
<u>Land:</u>						
Total	160 acres					
Total cultivated	146 acres					
<u>Improvements:</u>						
Tractor shed		1		750.00		375.00
Storage		1		1,500.00		750.00
Subtotal				2,250.00		1,125.00
<u>Irrigation system:</u>						
Pumping plant	30 h.p.; 900 g.p.m.	2	3,000.00	6,000.00	1,537.50	3,075.00
Well, casing	12" diameter; 80' lift	2x200'	4.15	1,660.00	2.08	830.00
Pipe	14"	3,600'	.90	3,240.00	.45	1,620.00
Stands	8' x 36"	2	72.00	144.00	36.00	72.00
Vents	8' x 8"	4	5.60	22.40	2.80	11.20
Alfalfa valves	10"	20	15.00	300.00	7.50	150.00
Siphons	3/4" - 2"	250	1.50	375.00	.75	187.50
Subtotal				11,741.40		5,945.70
<u>Power:</u>						
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				10,200.00		6,940.00
<u>Equipment:</u>						
Plow, 2 way	2-16"	1		550.00		275.00
Disk, offset	6'	1		485.00		242.50
Disk, tandem	8'	1		600.00		300.00
Border disk		1		175.00		87.50
Spiketooth harrow	4' section	4	30.00	120.00	15.00	60.00
Cultipacker	10'	1		325.00		162.50
Planter	4 row	1		500.00		250.00
Cultivator	4 row	1		1,000.00		500.00
Cotton trailer	4 bale	2	350.00	700.00	192.50	385.00
Stalk outter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Ditcher b/	4'	1		135.00		67.50
Scraper b/	8'	1		485.00		242.50
Plow, 2 way b/	2 - 14"	1		453.00		226.50
Lister b/	4 row	1		350.00		175.00
Cultivator b/	2 row	1		350.00		175.00
Cotton trailer b/	6 bale	1		450.00		247.50
Subtotal				7,873.00		3,994.00
Total				32,064.40		18,004.70

a/ New cost + Salvage value No salvage values, except as follows:

2

W-1 tractor: \$1040 each W-2 tractor: \$1200  
 Pickup truck: 400 4-bale cotton trailer: \$35 each  
 6-bale cotton trailer: 70 Pumping plant: \$75 each

b/ Standby equipment owned but not used in 1953 or 1955.





TABLE 14

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton,  
160-acre Farm

Dates	Operation	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
1	2	3	4	5	6	7	8	1953	1955
								9	10
4/10 - 4/20	Cut stalks	1	W-1	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	W-2	8' tandem	26	.70	.70		
	Plow	1	W-2	2 way/2-16"	10	.90	.90		
	Disk	1	W-1	6' offset disk	18	.50	.50		
	Border up	1	W-2	border disk	40	.22	.22		
	Preirrigate							6 ac.in.	6 ac.in.
	Disk 2X with harrow attached	1	W-2	6' offset disk w/8' spiketooth harrow	16	1.12	1.12		
	Plant	2	W-2	4 row planter	29	.62	.31	30# delint seed	
	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-1	4 row cultivator	20	.45	.45		
6/15 - 6/30	Hand thin - Contract								
	Cultivate (2)	1	W-1	4 row cultivator	22	.41	.41		
	Fertilize - Contract							88# (N)	109# (N)
	Irrigate (1)							5 ac.in.	5 ac.in.
6/15 - 8/15	Hand weed - Contract								
	Cultivate (3)	1	W-1	4 row cultivator	24	.38	.38		
	Dust 2X - Contract							60# 5% DDT 50% S	
7/10 - 7/26	Irrigate (2)							5 ac.in.	7.4 ac.in.
7/20 - 9/5	Cultivate & lay by (4)	1	W-1	4 row cultivator	24	.38	.38	20 ac.in.	20 ac.in.
10/1 - on	Irrigate 4X (3-6)								
10/1 - on	Pick 1st - Machine - Contract								
11/15 - on	Pick 2nd - Machine - Contract								
10/1 - on	Haul to gin	1	Pick-up	4 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

Source: Calculated from survey data.



TABLE 15

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa,  
160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
4/5 - 4/15	Irrigate 1X	1						5.5 ac. in.
	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
5/15 - 5/25	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
6/20 - 6/30	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
7/20 - 7/30	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
9/25 - 10/10	Irrigate 2X	1						8 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - Contract							
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.





TABLE 16

Calendar of Operations and Physical Inputs Per Acre to Establish an Alfalfa Stand,  
160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
2/1 - 3/15	Disk 2X	1	W-2	8' tandem	26	.70	.70	
	Chisel 2X - Contract							
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	W-1	6' offset disk	18	.50	.50	8 ac. in.
	Preirrigate							
	Disk 2X with harrow	1	W-2	6' offset disk w/8' spiketooth	16	1.12	1.12	
	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	16' spiketooth harrow	55	.16	.16	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.





TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn,  
160-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	W-2	8' tandem	26	.70	.70	
	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Disk	1	W-1	6' offset disk	18	.50	.50	
	Border up	1	W-2	border disk	40	.22	.22	
	Preirrigate							7 ac. in.
	Disk 2X w/harrow attached	1	W-2	6' offset disk w/8' spiketooth harrow	16	1.12	1.12	
3/25 - 4/10	Plant	2	W-2	4 row planter	29	.62	.31	10# seed
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
4/25 - 5/5	Fertilize - Contract							119# (N)
5/5 - 5/15	Irrigate	1						4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	22	.82	.82	
5/30 - 8/20	Irrigate 7X	1						28 ac. in.
9/15 - on	Pick & haul - Contract							
10/1 - on	Shell - Contract							

Source: Calculated from survey data.

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TABLE 18

Inputs and Costs for Producing Cotton,  
160-acre Farm

Item	1953				1955			
	Acres: 99 — Yield: 1.3 bales				Acres: 54 — Yield: 1.6 bales			
	Units used per acre <u>a</u>	Unit cost <u>a</u>	Cost per acre	Total cost	Units used per acre <u>a</u>	Unit cost <u>a</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.16	708.50		6.50	7.58	409.50
Office		1.54	1.59	157.19		1.54	1.66	89.38
Improvements		1.21	1.24	123.13		1.21	1.30	70.02
Power			13.51	1,337.49			15.63	844.02
Equipment			10.25	1,014.75			14.60	788.40
Irrigation water			7.34	726.66			7.60	410.40
TOTAL FIXED			41.09	4,067.72			48.37	2,611.72
<b>VARIABLE:</b>								
<u>Power:</u>								
W-1 tractor	2.89 hr.	.74	2.14	211.86	2.89 hr.	.80	2.31	124.74
W-2 tractor	3.25 hr.	.80	2.61	258.39	3.25 hr.	.81	2.65	143.10
Pickup truck	84 mi.	.03	2.93	290.07	106 mi.	.03	3.72	200.88
<u>Equipment:</u>								
Plow, 2w/2-16"	.90 hr.	.93	.83	82.17	.90 hr.	1.16	1.04	56.16
6' offset disk	1.62 hr.	.41	.67	66.33	1.62 hr.	.48	.79	42.66
8' tandem disk	.70 hr.	1.17	.82	81.18	.70 hr.	1.38	.97	52.38
Border disk	.22 hr.	.80	.18	17.82	.22 hr.	1.01	.22	11.88
8' spiketooth harrow	1.12 hr.	.02	.02	1.98	1.12 hr.	.02	.02	1.08
10' cultipacker	.27 hr.	1.22	.33	32.67	.27 hr.	2.23	.60	32.40
4-row planter	.31 hr.	.32	.10	9.90	.31 hr.	.41	.13	7.02
4-row cultivator	1.62 hr.	1.25	2.02	199.98	1.62 hr.	1.54	2.50	135.00
4-bale cotton trailer	1.50 hr.	.14	.21	20.79	1.50 hr.	.26	.39	21.06
2-row stalk cutter	.50 hr.	.33	.16	15.84	.50 hr.	.60	.30	16.20
<u>Materials:</u>								
Irrigation water	36 ac"	.30	10.80	1,069.20	38.4 ac"	.29	11.29	609.66
Seed (acid delint)	30 lb.	.08	2.40	237.60	30 lb.	.08	2.40	129.60
<u>Labor:</u>								
Drivers	9.57 hr.	1.00	9.57	947.43	10.10 hr.	1.00	10.10	545.40
Irrigators	13.50 hr.	.90	12.15	1,202.85	14.40 hr.	.90	12.96	699.84
General	.31 hr.	.90	.28	27.72	.31 hr.	.90	.28	15.12
Soc. Sec. & Comp. Insur. <u>b</u> /			1.28	126.32			1.35	73.10

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Table 18 continued.

Item	1953				1955			
	Acres: 99 — Yield: 1.3 bales				Acres: 54 — Yield: 1.6 bales			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
<u>Contracts:</u>								
Fertilize (N)	88 lb.		10.74	1,063.26	109 lb.		12.95	699.30
Hand thin			5.00	495.00			5.00	270.00
Hand weed			5.00	495.00			5.00	270.00
Dust 2X (5% DDT — 50% sulfur)	60 lb.	.13	8.10	801.90	60 lb.	.13	8.10	437.40
Pick 2X — machine	1.3 bale	24.50	31.85	3,153.15	1.6 bale	24.50	39.20	2,116.80
Gin	1.3 bale	14.70	19.11	1,891.89	1.6 bale	14.70	23.52	1,270.08
Insur. & storage	1.3 bale	1.19	1.55	153.45	1.6 bale	1.19	1.90	102.60
Interest on operating capital <u>c/</u>			1.93	191.44			2.11	114.16
Total Variable			132.78	13,145.19			151.80	8,197.62
Total Cost			173.87	17,212.91			200.17	10,809.34

a/ Rounded.b/ 5.8% x total labor cost.c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5%.

Source: Calculated from survey data.





TABLE 19

Inputs and Costs for Producing Alfalfa,  
160-acre Farm

Item	1953				1955			
	Acres: 41 — Yield: 6.0 tons				Acres: 55 — Yield: 6.25 tons			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	8.09	331.50		6.50	7.56	416.00
Office		1.54	1.65	67.81		1.54	1.65	90.93
Improvements		1.21	1.30	53.12		1.21	1.29	71.22
Power			8.52	349.32			10.16	558.80
Equipment			3.59	147.19			2.81	154.55
Irrigation water			10.40	426.40			10.10	555.50
1/4 cost to establish stand			11.98	491.42			12.20	670.91
<b>TOTAL FIXED</b>			45.53	1,866.76			45.77	2,517.91
<b>VARIABLE:</b>								
<u>Power:</u>								
W-1 tractor	3.60 hr.	.74	2.66	109.06	3.60 hr.	.80	2.87	157.85
Pickup truck	42 mi.	.03	1.46	59.86	53 mi.	.03	1.86	102.30
<u>Equipment:</u>								
7' power mower	1.86 hr.	.48	.90	36.90	1.86 hr.	.34	.64	35.20
8' side delivery rake	1.74 hr.	.73	1.27	52.07	1.74 hr.	.54	.95	52.25
<u>Materials:</u>								
Irrigation water	51 ac"	.30	15.30	627.30	51 ac"	.29	14.99	824.45
<u>Labor:</u>								
Drivers	4.65 hr.	1.00	4.65	190.65	4.93 hr.	1.00	4.93	271.15
Irrigators	19.13 hr.	.90	17.22	706.02	19.13 hr.	.90	17.22	947.10
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.27	52.01			1.28	70.66
<u>Contracts:</u>								
Bale	6.0 ton	3.50	21.00	861.00	6.25 ton	3.50	21.88	1,203.40
Roadside	6.0 ton	1.75	10.50	430.50	6.25 ton	1.75	10.94	601.70
<b>Total Variable</b>			76.23	3,125.37			77.56	4,266.06
<b>Total Cost</b>			121.76	4,992.13			123.33	6,783.97

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8% x total labor cost.

Source: Calculated from survey data.



TABLE 20

Inputs and Costs for Establishing an Alfalfa Stand,  
160-acre Farm

Item	1953				1955			
	Acres: 41				Acres: 55			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>Power:</b>								
W-1 tractor	.72 hr.	2.61	1.88	77.08	.72 hr.	2.98	2.15	118.25
W-2 tractor	1.98 hr.	2.19	4.34	177.94	1.98 hr.	2.27	4.49	246.95
<b>Equipment:</b>								
6' offset disk	1.62 hr.	.79	1.28	52.48	1.62 hr.	.93	1.51	83.05
8' tandem disk	.70 hr.	2.25	1.58	64.78	.70 hr.	2.65	1.85	101.75
8' spiketooth harrow	1.12 hr.	.12	.13	5.33	1.12 hr.	.14	.15	8.25
16' spiketooth harrow	.16 hr.	.24	.04	1.64	.16 hr.	.28	.04	2.20
Broadcaster (rented)	.22 hr.	.25	.06	2.46	.22 hr.	.25	.06	3.30
<b>Materials:</b>								
Irrigation water	8 ac"	.50	4.03	165.23	8 ac"	.49	3.94	216.70
Seed	25 lb.	.34	8.50	348.50	25 lb.	.34	8.50	467.50
<b>Labor:</b>								
Drivers	2.70 hr.	1.00	2.70	110.70	2.70 hr.	1.00	2.70	148.50
Irrigators	3.00 hr.	.90	2.70	110.70	3.00 hr.	.90	2.70	148.50
Sec. Sec. & Comp. Insur. <u>b/</u>			.31	12.84			.31	17.23
<b>Contracts:</b>								
Chisel 2X			5.50	225.50			5.50	302.50
Landplane 3X			12.00	492.00			12.00	660.00
Make borders			.75	30.75			.75	41.25
Dust (2% Parathion)	12.5 lb.		2.14	87.74	12.5 lb.		2.14	117.70
<b>Total Cost</b>			<b>47.94</b>	<b>1,965.67</b>			<b>48.79</b>	<b>2,683.63</b>
<b>Amount Charged off Annually</b>			<b>11.98</b>	<b>491.42</b>			<b>12.20</b>	<b>670.91</b>

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.



Summary of Costs for Farming Operations in the State of Texas, 1954

Item	1954		1953		1952		1951		1950	
	Per Acre	Total	Per Acre	Total	Per Acre	Total	Per Acre	Total	Per Acre	Total
Land (acres)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Seed (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fertilizer (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Pesticides (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Harvesting (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transportation (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Marketing (lb.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Total	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Source: U.S. Department of Agriculture, Bureau of Economic Analysis, "Farm Income and Expenses, 1954," Washington, D.C., 1955.

U.S. Department of Agriculture, Bureau of Economic Analysis

Washington, D.C. 20501

TABLE 21

Inputs and Costs for Producing Field Corn,  
160-acre Farm

Item	1955			
	Acres: 25 — Yield: 35 cwt			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	8.58	214.50
Office		1.54	1.79	44.69
Improvements		1.21	1.40	35.01
Power			10.52	263.00
Equipment			8.30	207.50
Irrigation water			7.72	193.00
TOTAL FIXED			38.31	957.70
<b>VARIABLE:</b>				
<u>Power:</u>				
W-1 tractor	.50 hr.	.80	.40	10.00
W-2 tractor	4.93 hr.	.81	4.01	100.25
Pickup truck	52 mi.	.03	1.83	45.75
<u>Equipment:</u>				
Plow, 2w/2-16"	.90 hr.	1.16	1.04	26.00
6' offset disk	1.62 hr.	.49	.79	19.75
8' tandem disk	.70 hr.	1.38	.97	24.25
Border disk	.22 hr.	1.01	.22	5.50
8' spiketooth harrow	1.12 hr.	.02	.02	.50
4-row planter	.31 hr.	.41	.13	3.25
4-row cultivator	1.68 hr.	1.54	2.60	65.00
<u>Materials:</u>				
Irrigation water	39 ac"	.29	11.47	286.75
Seed	10 lb.	.26	2.60	65.00
<u>Labor:</u>				
Drivers	6.74 hr.	1.00	6.74	168.50
Irrigators	14.63 hr.	.90	13.17	329.25
General	.31 hr.	.90	.28	7.00
Soc. Sec. & Comp. Insur. <u>b/</u>			1.17	29.28
<u>Contracts:</u>				
Fertilize (N)	119 lb.		14.25	356.25
Pick			10.00	250.00
Shell	35 cwt	.12	4.38	109.50
Haul	35 cwt	.10	3.50	87.50
Interest on operating capital <u>c/</u>			2.00	50.07
Total Variable			81.57	2,039.35
Total Cost			119.88	2,997.05

a/ Rounded.b/ 5.8% x total labor cost.c/ Total of variable costs (less operator labor) ÷ 2, x 5.5%.

Source: Calculated from survey data.

Report and Costs for Operating Shipboard

Shipboard			
Item	Unit	Rate	Amount
1. Fuel	gallons	1.50	150.00
2. Oil	gallons	1.00	100.00
3. Water	gallons	0.50	50.00
4. Food	lb.	0.25	25.00
5. Medical	lb.	0.25	25.00
6. Laundry	lb.	0.25	25.00
7. Miscellaneous	lb.	0.25	25.00
8. Repairs	hr.	1.00	100.00
9. Maintenance	hr.	1.00	100.00
10. Cleaning	hr.	1.00	100.00
11. Security	hr.	1.00	100.00
12. Communications	hr.	1.00	100.00
13. Navigation	hr.	1.00	100.00
14. Engineering	hr.	1.00	100.00
15. Deck	hr.	1.00	100.00
16. Gun	hr.	1.00	100.00
17. Radar	hr.	1.00	100.00
18. Sonar	hr.	1.00	100.00
19. Searchlight	hr.	1.00	100.00
20. Other	hr.	1.00	100.00
<b>Total</b>			<b>1,000.00</b>

Report prepared by: [Name]  
 Date: 10-10-71  
 Location: [Location]



TABLE 22

Physical Resources and Investments for Typical 320-acre Farms,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>2</sup>	
			per unit	total	per unit	total
1	2	3	4	5	6	7
dollars						
<u>Land:</u>						
Total	320 acres					
Total cultivated	300 acres					
<u>Improvements:</u>						
Fuel storage - gas	350 gal.	1		110.00		55.00
Fuel storage - diesel	550 gal.	1		135.00		67.50
Subtotal				245.00		122.50
<u>Irrigation system:</u>						
Pumping plant	30 h.p.; 1200 g.p.m.	3	3,000.00	9,000.00	1,537.50	4,612.50
Well, casing	16" diameter; 80' lift	3x250'	7.90	5,925.00	3.95	2,962.50
Pipe	16"	5,280'	1.00	5,280.00	.50	2,640.00
Stands	8' x 36"	3	72.00	216.00	18.00	108.00
Vents	8' x 8"	4	5.60	22.40	2.80	11.20
Alfalfa valves	10"	40	15.00	600.00	7.50	300.00
Siphons	3/4" - 2"	300	1.50	450.00	.75	225.00
Subtotal				21,493.40		10,859.20
<u>Power:</u>						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup truck	1/2 ton	2	2,000.00	4,000.00	1,200.00	2,400.00
Subtotal				22,200.00		14,090.00
<u>Equipment:</u>						
Ditcher	5'	1		140.00		70.00
Scraper	10'	1		520.00		260.00
Plow, 2 way	2-16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	12'	1		1,050.00		525.00
Spiketooth harrow	4' section	6	30.00	180.00	15.00	90.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	4 row	1		1,000.00		500.00
Cotton picker	1 row	1		8,700.00		5,200.00
Cotton trailer	5 bale	6	400.00	2,400.00	220.00	1,320.00
Stalk cutter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Hay baler	2 wire	1		3,325.00		1,662.50
Plow, disk b/	5 blade	1		1,400.00		700.00

(Continued on next page).

• (not to be bound)

Table 22 continued.

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
1	2	3	4	5	6	7
dollars						
Equipment: (cont.)						
Disk, tandem <sup>b/</sup>	8'	1		600.00		300.00
Cultivator <sup>b/</sup>	2 row	1		350.00		175.00
Subtotal				22,865.00		12,422.50
1953 Total, 320-1 and 320-2 Farms				66,803.40		37,494.20
1955 Total, 320-1 Farm <sup>c/</sup>				67,528.40		37,856.70
1955 Total, 320-2 Farm <sup>d/</sup>				66,978.40		37,581.70

<sup>a/</sup> New cost + Salvage value

2

No salvage values except as follows:

T-5D tractor:	\$ 700	Cotton picker:	\$1,740
W-1 tractors:	2,080 each	Cotton trailers:	240 each
W-2 tractors:	2,400 each	Hay baler:	665
Pickup trucks:	800 each		

<sup>b/</sup> Standby equipment owned but not used in 1953 or 1955.

<sup>c/</sup> The 320-1 farm purchased one 8' offset disk in 1955 (new cost: \$725.00; average investment: \$362.50).

<sup>d/</sup> The 320-2 farm purchased one border disk in 1955 (new cost: \$175.00; average investment: \$87.50).

Source: Calculated from survey data.



1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360		2361		2362		2363		2364		2365		2366		2367		2368		2369		2370		2371		2372		2373		2374		2375		2376		2377		2378		2379		2380		2381		2382		2383		2384		2385		2386		2387		2388		2389		2390		2391		2392		2393		2394		2395		2396		2397		2398		2399		2400		2401		2402		2403		2404		2405		2406		2407		2408		2409		2410		2411		2412		2413		2414		2415		2416		2417		2418		2419		2420		2421		2422		2423		2424		2425		2426		2427		2428		2429		2430		2431		2432		2433		2434		2435		2436		2437		2438		2439		2440		2441		2442		2443		2444		2445		2446		2447		2448		2449		2450		2451		2452		2453		2454		2455		2456		2457		2458		2459		2460		2461		2462		2463		2464		2465		2466		2467		2468		2469		2470		2471		2472		2473		2474		2475		2476		2477		2478		2479		2480		2481		2482		2483		2484		2485		2486		2487		2488		2489		2490		2491		2492		2493		2494		2495		2496		2497		2498		2499		2500		2501		2502		2503		2504		2505		2506		2507		2508		2509		2510		2511		2512		2513		2514		2515		2516		2517		2518		2519		2520		2521		2522		2523		2524		2525		2526		2527		2528		2529		2530		2531		2532		2533		2534		2535		2536		2537		2538		2539		2540		2541		2542		2543		2544		2545		2546		2547		2548		2549		2550		2551		2552		2553		2554		2555		2556		2557		2558		2559		2560		2561		2562		2563		2564		2565		2566		2567		2568		2569		2570		2571		2572		2573		2574		2575		2576		2577		2578		2579		2580		2581		2582		2583		2584		2585		2586		2587		2588		2589		2590		2591		2592		2593		2594		2595		2596		2597		2598		2599		2600		2601		2602		2603		2604		2605		2606		2607		2608		2609		2610		2611		2612		2613		2614		2615		2616		2617		2618		2619		2620		2621		2622		2623		2624		2625		2626		2627		2628		2629		2630		2631		2632		2633		2634		2635		2636		2637		2638		2639		2640		2641		2642		2643		2644		2645		2646		2647		2648		2649		2650		2651		2652		2653		2654		2655		2656		2657		2658		2659		2660		2661		2662		2663		2664		2665		2666		2667		2668		2669		2670		2671		2672		2673		2674		2675		2676		2677		2678		2679		2680		2681		2682		2683		2684		2685		2686		2687		2688		2689		2690		2691		2692		2693		2694		2695		2696		2697		2698		2699		2700		2701		2702		2703		2704		2705		2706		2707		2708		2709		2710		2711		2712		2713		2714		2715		2716		2717		2718		2719		2720		2721		2722		2723		2724		2725		2726		2727		2728		2729		2730		2731		2732		2733		2734		2735		2736		2737		2738		2739		2740		2741		2742		2743		2744		2745		2746		2747		2748		2749		2750		2751		2752		2753		2754		2755		2756		2757		2758		2759		2760		2761		2762		2763		2764		2765		2766		2767		2768		2769		2770		2771		2772		2773		2774		2775		2776		2777		2778		2779		2780		2781		2782		2783		2784		2785		27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TABLE 23

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
1	2	3	4	5	6	7	8	9	10
4/1 - 4/15	Cut stalks	1	W-2	2 row stalk cutter	18	.50	.50		
	Disk 2X	1	T-5D	12' disk	34	.52	.52		
	Flow	1	T-5D	2 way/2-16"	12	.75	.75		
	Disk	1	T-5D	12' offset disk	34	.26	.26		
	Furrow out	1	W-2	4 row lister-planter	30	.30	.30		
	Make head ditches*	1	T-5D	5' ditcher		.20	.20		
	Preirrigate	1						6 ac.in.	6.4 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.20	.20		
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60		
	Plant	2	W-2	4 row lister-planter	29	.62	.31	30# delint seed	
6/12 - 6/20	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4 row cultivator	20	.45	.45		
	Hand thin - Contract								
	Cultivate (2)	1	W-2	4 row cultivator	22	.41	.41		
	Fertilize - Contract							93# (N)	114# (N)
	Irrigate (1)							5 ac.in.	6 ac.in.
	Hand weed - Contract								
	Cultivate (3)	1	W-2	4 row cultivator	26	.35	.35		
7/10 - 7/20	Dust 2X - Contract							60# of 5% DDT 50% S	
	Irrigate (2)							5 ac.in.	6 ac.in.
	Cultivate & lay by (4)	1	W-2	4 row cultivator	26	.35	.35		
	Irrigate 4X	1						20 ac.in.	20 ac.in.
10/1 - on	Pick 1st - Machine	2	W-2	1 row cotton picker	6	3.00	1.50		
11/15 - on	Pick 2nd - Machine	2	W-2	1 row cotton picker	7	2.56	1.28		
10/1 - on	Haul to gin	1	Pick- up	5 bale cotton trailer	6	1.50	1.50		
	Gin - Contract								

\*occurs 4X - man-hours & tractor-hours are total for season

Source: Calculated from survey data.





TABLE 24

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
4/5 - 4/15	Irrigate 1X	1						5.5 ac. in.
	Cut 1st	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
5/15 - 5/25	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
6/20 - 6/30	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
7/20 - 7/30	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
8/20 - 8/30	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
9/25 - 10/10	Irrigate 2X	1						8 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 2X	1						8 ac. in.
	Cut 6th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2 wire hay baler	23	.39	.39	
	Roadside - Contract							
	Irrigate 1X	1						5.5 ac. in.



TABLE 25

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa Stand,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
2/1 - 3/15	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - Contract							
	Make borders - Contract							
	Landplane - Contract							
	Disk	1	T-5D	12' offset disk	34	.26	.26	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	T-5D	12' offset disk w/16' spiketooth	30	.30	.30	
	Seed	1	W-1	broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-2	16' spiketooth	55	.16	.16	
	Dust - Contract							12.5# 2% parathion

Source: Calculated from survey data.



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TABLE 26

Calendar of Operations and Physical Inputs Per Acre for Producing Milo,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Plow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	4 row lister-planter	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	5.8 ac. in.
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60	
5/1 - 6/1	Plant	2	W-2	4 row lister-planter	29	.62	.31	10# seed
5/25 - 6/20	Cultivate 2X	1	W-2	4 row cultivator	20	.90	.90	
6/1 - 6/25	Irrigate	1						
6/5 - 6/30	Cultivate	1	W-2	4 row cultivator	22	.41	.41	4 ac. in.
6/15 - 9/10	Irrigate 4X	1						16 ac. in.
10/15 - 11/15	Harvest - Contract							
10/15 - 11/15	Haul - Contract							

\* occurs 3X - man-hours and tractor-hours are total for season

Source: Calculated from survey data.





TABLE 27

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
	Disk 2X	1	T-5D	12' disk	34	.52	.52	
	Flow	1	T-5D	2 way/2-16"	12	.75	.75	
	Disk	1	T-5D	8' offset disk	26	.35	.35	
	Furrow out	1	W-2	4 row lister-planter	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						7 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	
	Disk 2X with harrow attached	1	T-5D	12' disk w/16' harrow	30	.60	.60	
3/25 - 4/10	Plant	2	W-2	4 row lister-planter	29	.62	.31	10# seed
4/10 - 4/20	Cultivate	1	W-2	4 row cultivator	20	.45	.45	
	Cultivate	1	W-2	4 row cultivator	22	.41	.41	
4/25 - 5/5	Fertilize - Contract							119# (N)
5/5 - 5/15	Irrigate	1						4 ac. in.
	Cultivate 2X	1	W-2	4 row cultivator	24	.76	.76	
5/30 - 8/20	Irrigate 7X	1						28 ac. in.
9/15 - on	Pick & haul - Contract							
10/1 - on	Shell - Contract							

\*occurs 3X - man-hours & tractor-hours are total for season

Source: Calculated from survey data.



TABLE 28

Calendar of Operations and Physical Inputs Per Acre for Producing Barley,  
320-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
1	2	3	4	5	6	7	8	9
12/1 - 12/10	Disk	1	T-5D	12' offset disk	34	.26	.26	
12/5 - 12/15	Disk with harrow attachment	1	T-5D	12' offset disk w/16' spiketooth	30	.30	.30	
12/15 - 12/31	Seed	2	W-1	broadcaster (rented)	40	.44	.22	90# seed
	Harrow	1	T-5D	20' spiketooth harrow	60	.15	.15	
	Border up	1	W-2	border disk	40	.22	.22	
	Irrigate	1						6 ac. in.
	Irrigate	1						6 ac. in.
6/1 - 7/15	Harvest - Contract							
6/1 - 7/15	Haul - Contract							

Source: Calculated from survey data.



DATE: 03 (X) 6, 2000 BY: W. B. G. J. G. J.

TABLE 29

Inputs and Costs for Producing Cotton,  
320-acre Farms

Item	1953			
	320-1 and 320-2 Farms			
	Acres: 183 — Yield: 1.3 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.39	1,352.00
Office		1.00	1.07	195.00
Improvements		.10	.11	19.91
Power			12.49	2,285.67
Equipment			17.78	3,253.74
Irrigation water			7.14	1,306.62
Total Fixed			45.98	8,412.94
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor	2.53 hr.	.92	2.33	426.39
W-2 tractor	5.65 hr.	.86	4.88	893.04
Pickup truck	104 mi.	.03	3.42	625.86
<u>Equipment:</u>				
5' ditcher	.20 hr.	.11	.02	3.66
10' scraper	.20 hr.	.41	.08	14.64
Plow, 2w/2-16"	.75 hr.	.57	.43	78.69
12' offset disk	1.38 hr.	.55	.76	139.08
16' spiketooth harrow	.60 hr.	.03	.02	3.66
12' cultipacker	.20 hr.	1.04	.21	38.43
4-row lister planter	.61 hr.	.47	.28	51.24
4-row cultivator	1.56 hr.	.67	1.04	190.32
1-row cotton picker	2.78 hr.	2.86	7.95	1,454.85
5-bale cotton trailer	1.50 hr.	.26	.39	71.37
2-row stalk cutter	.50 hr.	.18	.09	16.47
<u>Materials:</u>				
Irrigation water	36 ac"	.22	8.10	1,482.30
Seed (acid delint)	30 lb.	.08	2.40	439.20
<u>Labor:</u>				
Drivers	12.14 hr.	1.00	12.14	2,221.62
Irrigators	13.50 hr.	.90	12.15	2,223.45
General	.31 hr.	.90	.28	51.24
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.42	260.79
<u>Contracts:</u>				
Fertilize (N)	93 lb.		11.26	2,060.58
Hand thin			5.00	915.00
Hand weed			5.00	915.00
Dust ZX (5% DDT - 50% sulfur)	60 lb.	.13	8.10	1,482.30
Gin	1.3 bale	14.70	19.11	3,497.13
Insur. & storage	1.3 bale	1.19	1.55	283.65
Interest on operating capital <sup>c/</sup>			1.93	353.03
Total Variable			110.34	20,192.99
Total Cost			156.32	28,605.93

(Continued on next page.)

Assets and Liabilities of the Corporation  
Balance Sheet

Assets				Liabilities and Equity			
Current Assets				Current Liabilities			
Cash	100.00			Accounts Payable	50.00		
Accounts Receivable	200.00			Notes Payable	100.00		
Inventory	150.00			Accrued Expenses	20.00		
Prepaid Expenses	50.00			Deferred Income	10.00		
Other Current Assets	10.00						
Total Current Assets				Total Current Liabilities			
1,010.00				1,010.00			
Non-Current Assets				Non-Current Liabilities			
Property, Plant, and Equipment	500.00			Long-Term Debt	200.00		
Intangible Assets	100.00			Deferred Tax Liabilities	50.00		
Other Non-Current Assets	50.00						
Total Non-Current Assets				Total Non-Current Liabilities			
650.00				650.00			
Total Assets				Total Liabilities and Equity			
1,660.00				1,660.00			
Equity				Details			
Common Stock	100.00			Common Stock	100.00		
Retained Earnings	150.00			Retained Earnings	150.00		
Other Equity	50.00			Other Equity	50.00		
Total Equity				Total Equity			
300.00				300.00			



Table 29 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 100 — Yield: 1.4 bales				Acres: 100 — Yield: 1.4 bales			
	Units used per acre <u>a</u>	Unit cost <u>a</u>	Cost per acre	Total cost	Units used per acre <u>a</u>	Unit cost <u>a</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.70	769.60		6.50	7.07	707.20
Office		1.00	1.11	111.00		1.00	1.02	102.00
Improvements		.10	.11	11.33			.10	10.41
Power			15.00	1,500.00			17.61	1,761.00
Equipment			28.85	2,885.00			31.12	3,112.00
Irrigation water			6.99	699.00			8.45	845.00
<b>TOTAL FIXED</b>			59.76	5,975.93			65.37	6,537.61
<b>VARIABLE:</b>								
<u>Power:</u>								
T-5D tractor	2.53 hr.	.94	2.38	238.00	2.53 hr.	1.10	2.78	278.00
W-2 tractor	5.65 hr.	.81	4.57	457.00	5.65 hr.	.85	4.81	481.00
Pickup truck	130 mi.	.03	4.28	428.00	123 mi.	.03	4.06	406.00
<u>Equipment:</u>								
3' ditcher	.20 hr.	.13	.03	3.00	.20 hr.	.21	.04	4.00
10' scraper	.20 hr.	.48	.10	10.00	.20 hr.	.78	.16	16.00
Plow, 2w/2-16"	.75 hr.	.60	.45	45.00	.75 hr.	1.10	.82	82.00
12' offset disk	1.38 hr.	.62	.85	85.00	1.38 hr.	.72	.99	99.00
16' spiketooth harrow	.60 hr.	.03	.02	2.00	.60 hr.	.03	.02	2.00
12' cultipacker	.20 hr.	1.90	.38	38.00	.20 hr.	1.90	.38	38.00
4-row lister planter	.61 hr.	.49	.30	30.00	.61 hr.	.90	.55	55.00
1-row cultivator	1.56 hr.	.69	1.07	107.00	1.56 hr.	1.28	2.00	200.00
1-row cotton picker	2.78 hr.	5.23	14.55	1,455.00	2.78 hr.	5.23	14.55	1,455.00
5-bale cotton trailer	1.50 hr.	.48	.72	72.00	1.50 hr.	.48	.72	72.00
2-row stalk cutter	.50 hr.	.32	.16	16.00	.50 hr.	.32	.16	16.00
<u>Materials:</u>								
Irrigation water	38.4 ac"	.22	8.56	856.00	38.4 ac"	.25	9.48	948.00
Seed (acid delint)	30 lb.	.08	2.40	240.00	30 lb.	.08	2.40	240.00
<u>Labor:</u>								
Drivers	12.78 hr.	1.00	12.78	1,278.00	12.62 hr.	1.00	12.62	1,262.00
Irrigators	14.40 hr.	.90	12.96	1,296.00	14.40 hr.	.90	12.96	1,296.00
General	.31 hr.	.90	.28	28.00	.31 hr.	.90	.28	28.00
Sec. Sec. & Comp. Insur. <u>b/</u>			1.51	150.92			1.50	149.99

(Continued on next page).



Table 29 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 100 — Yield: 1.4 bales				Acres: 100 — Yield: 1.4 bales			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
<u>Contracts:</u>								
Fertilize (N)	114 lb.		13.47	1,347.00	114 lb.		13.47	1,347.00
Hand thin			5.00	500.00			5.00	500.00
Hand weed			5.00	500.00			5.00	500.00
Dust 2X (5% DDT - 50% sulfur)	60 lb.	.13	8.10	810.00	60 lb.	.13	8.10	810.00
Gin	1.4 bale	14.70	20.58	2,058.00	1.4 bale	14.70	20.58	2,058.00
Insur. & Storage	1.4 bale	1.19	1.67	167.00	1.4 bale	1.19	1.67	167.00
Interest on operating capital <u>c/</u>			2.22	222.02			2.30	229.67
Total Variable			124.39	12,438.94			127.40	12,739.66
Total Cost			184.15	18,414.87			192.77	19,277.27

a/ Rounded.b/ 5.8% x total labor cost.c/ Total of variable costs (less operator labor, ginning, and picking)  $\div$  2, x 5%.

Source: Calculated from survey data.



Year	1970-71				1971-72				1972-73			
	1	2	3	4	5	6	7	8	9	10	11	12
Unit used (lb)												
Unit used (kg)												
Unit used (metric ton)												
Unit used (short ton)												
Unit used (cwt)												
Unit used (bushel)												
Unit used (acre)												
Unit used (hectare)												
Unit used (square foot)												
Unit used (square meter)												
Unit used (cubic foot)												
Unit used (cubic meter)												
Unit used (gallon)												
Unit used (liter)												
Unit used (kilogram)												
Unit used (pound)												
Unit used (ounce)												
Unit used (gram)												
Unit used (milligram)												
Unit used (microgram)												
Unit used (nanogram)												
Unit used (picogram)												
Unit used (femtogram)												
Unit used (attogram)												
Unit used (zeptogram)												
Unit used (yoctogram)												
Unit used (radian)												
Unit used (degree)												
Unit used (arcminute)												
Unit used (arcsecond)												
Unit used (parsec)												
Unit used (light year)												
Unit used (astronomical unit)												
Unit used (solar mass)												
Unit used (Jupiter mass)												
Unit used (Earth mass)												
Unit used (Moon mass)												
Unit used (proton mass)												
Unit used (electron mass)												
Unit used (neutron mass)												
Unit used (photon mass)												
Unit used (Higgs boson mass)												
Unit used (Planck mass)												
Unit used (GUT scale mass)												
Unit used (string scale mass)												
Unit used (Planck length)												
Unit used (Planck time)												
Unit used (Planck energy)												
Unit used (Planck power)												
Unit used (Planck density)												
Unit used (Planck temperature)												
Unit used (Planck pressure)												
Unit used (Planck viscosity)												
Unit used (Planck conductivity)												
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Unit used (Planck reactance)												
Unit used (Planck impedance)												
Unit used (Planck resistance)												
Unit used (Planck capacitance)												

TABLE 30

Inputs and Costs for Producing Alfalfa,  
320-acre Farms

Item	1953			
	320-1 and 320-2 Farms			
	Acres: 87 — Yield: 6.0 tons			
	Inputs used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.41	644.80
Office		1.00	1.07	93.00
Improvements		.10	.11	9.50
Power			12.95	1,126.65
Equipment			9.74	847.38
Irrigation water			9.49	825.63
1/4 cost to establish stand			11.55	1,004.98
TOTAL FIXED			52.32	4,551.94
<b>VARIABLE:</b>				
<u>Power:</u>				
W-1 tractor	3.60 hr.	.78	2.80	243.60
W-2 tractor	2.34 hr.	.86	2.02	175.74
Pickup truck	52 mi.	.03	1.71	148.77
<u>Equipment:</u>				
7' power mower	1.86 hr.	.22	.40	34.80
8' side delivery rake	1.74 hr.	.34	.60	52.20
2-wire hay baler	2.34 hr.	.82	1.91	166.17
<u>Materials:</u>				
Irrigation water	51 ac"	.22	11.48	998.76
Wire	6.00 ton	.50	3.00	261.00
<u>Labor:</u>				
Driver	7.24 hr.	1.00	7.24	629.88
Irrigator	19.14 hr.	.90	17.23	1,499.01
Sec. Sec. & Comp. Insur. <u>b/</u>			1.42	123.48
<u>Contracts:</u>				
Roadside	6.0 ton	1.75	10.50	913.50
Total Variable			60.31	5,246.91
Total Cost			112.63	9,798.65

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Table 30 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 87 — Yield: 6.25 tons				Acres: 87 — Yield: 6.25 tons			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	7.65	665.60		6.50	7.17	624.00
Office		1.00	1.10	96.00		1.00	1.03	90.00
Improvements		.10	.11	9.80		.10	.11	9.19
Power			13.96	1,214.52			13.71	1,192.77
Equipment			9.49	825.63			9.67	841.29
Irrigation water			9.28	807.36			11.22	976.14
1/4 cost to establish stand			11.63	1,011.94			12.28	1,068.71
TOTAL FIXED			53.22	4,630.85			55.19	4,802.10
<b>VARIABLE:</b>								
<b>Power:</b>								
W-1 tractor	3.60 hr.	.78	2.80	243.60	3.60 hr.	.75	2.71	235.77
W-2 tractor	2.34 hr.	.81	1.89	164.43	2.34 hr.	.85	1.99	173.13
Pickup truck	65 mi.	.03	2.14	186.18	62 mi.	.03	2.03	176.61
<b>Equipment:</b>								
7' power mower	1.86 hr.	.22	.40	34.80	1.86 hr.	.22	.40	34.80
8' side delivery rake	1.74 hr.	.34	.60	52.20	1.74 hr.	.34	.60	52.20
2-wire hay baler	2.34 hr.	.82	1.91	166.17	2.34 hr.	.82	1.91	166.17
<b>Materials:</b>								
Irrigation water	51 ac"	.22	11.37	989.19	51 ac"	.25	12.60	1,096.20
Wire	6.25 ton	.50	3.12	271.44	6.25 ton	.50	3.12	271.44
<b>Labor:</b>								
Driver	7.56 hr.	1.00	7.56	657.72	7.48 hr.	1.00	7.48	650.76
Irrigator	19.14 hr.	.90	17.23	1,499.01	19.14 hr.	.90	17.23	1,499.01
Soc. Sec. & Comp. Insur. <u>b/</u>			1.44	125.09			1.43	124.69
<b>Contracts:</b>								
Roadside	6.25 ton	1.75	10.94	951.78	6.25 ton	1.75	10.94	951.78
Total Variable			61.40	5,341.61			62.44	5,432.56
Total Cost			114.62	9,972.46			117.63	10,234.66

a/ Rounded.b/ 5.8% x total labor cost.

Source: Calculated from survey data.



TABLE 31

Inputs and Costs for Establishing an Alfalfa Stand,  
320-acre Farms

Item	1953			
	320-1 and 320-2 Farms			
	Acres: 87			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<u>Power:</u>				
T-5D tractor	2.20 hr.	2.70	5.93	515.91
W-1 tractor	.22 hr.	3.36	.74	64.38
W-2 tractor	.16 hr.	1.62	.26	22.62
<u>Equipment:</u>				
8' chisel	1.12 hr.	5.12	5.73	498.51
12' offset disk	1.08 hr.	1.05	1.14	99.18
16' spiketooth harrow	.46 hr.	.18	.08	6.96
Broadcaster (rented)	.22 hr.	.25	.06	5.22
<u>Materials:</u>				
Irrigation water	8 ac"	.41	3.29	286.23
Seed	25 lb.	.34	8.50	739.50
<u>Labor:</u>				
Driver	2.58 hr.	1.00	2.58	224.46
Irrigator	3.00 hr.	.90	2.70	234.90
Soc. Sec. & Comp. Insur. b/			.31	26.64
<u>Contracts:</u>				
Landplane 3X			12.00	1,044.00
Make borders			.75	65.25
Dust (2% Parathion)	12.5 lb.		2.14	186.18
Total Cost			46.21	4,019.94
Amount Charged off Annually			11.55	1,004.98

(Continued on next page.)



(... ..)

Table 31 continued.

Item	1955							
	320-1 Farm				320-2 Farm			
	Acres: 87				Acres: 87			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5	6	7	8	9
		dollars				dollars		
<b>Power:</b>								
T-5D tractor	2.20 hr.	2.81	6.17	536.79	2.20 hr.	3.64	8.02	697.74
W-1 tractor	.22 hr.	3.36	.74	64.38	.22 hr.	3.17	.70	60.90
W-2 tractor	.16 hr.	1.80	.29	25.23	.16 hr.	2.05	.33	28.71
<b>Equipment:</b>								
8' chisel	1.12 hr.	5.12	5.73	498.51	1.12 hr.	5.12	5.73	498.51
12' offset disk	1.08 hr.	1.19	1.28	111.36	1.08 hr.	1.38	1.49	129.63
16' spiketooth harrow	.46 hr.	.08	.04	3.48	.46 hr.	.18	.09	7.83
Broadcaster (rented)	.22 hr.	.25	.06	5.22	.22 hr.	.25	.06	5.22
<b>Materials:</b>								
Irrigation water	8 ac"	.40	3.24	281.88	8 ac"	.47	3.74	325.38
Seed	25 lb.	.34	8.50	739.50	25 lb.	.34	8.50	739.50
<b>Labor:</b>								
Driver	2.58 hr.	1.00	2.58	224.46	2.58 hr.	1.00	2.58	224.46
Irrigator	3.00 hr.	.90	2.70	234.90	3.00 hr.	.90	2.70	234.90
Soc. Sec. & Comp. Insur. <u>b/</u>			.31	26.64			.31	26.64
<b>Contracts:</b>								
Landplane 3X			12.00	1,044.00			12.00	1,044.00
Make borders			.75	65.25			.75	65.25
Dust (2% Parathion)	12.5 lb.		2.14	186.18	12.5 lb.		2.14	186.18
<b>Total Cost</b>			46.53	4,047.78			49.14	4,274.85
<b>Amount Charged off Annually</b>			11.63	1,011.94			12.28	1,068.71

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8% x total labor cost.

Source: Calculated from survey data.

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TABLE 32

Inputs and Costs for Producing Milo,  
320-acre Farms

Item	1953			
	320-1 and 320-2 Farms			
	Acres: 10 — Yield: 24 cwt			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	8.32	83.20
Office		1.00	1.20	12.00
Improvements		.10	.12	1.22
Power			7.47	74.70
Equipment			3.29	32.90
Irrigation water			4.80	48.00
TOTAL FIXED			25.20	252.02
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor	2.47 hr.	.92	2.27	22.70
W-2 tractor	1.62 hr.	.86	1.40	14.00
Pickup truck	52 mi.	.03	1.71	17.10
<u>Equipment:</u>				
5' ditcher	.15 hr.	.11	.02	.20
10' scraper	.15 hr.	.41	.06	.60
Plow, 2w/2-16"	.75 hr.	.57	.43	4.30
12' offset disk	1.12 hr.	.55	.61	6.10
16' spiketooth harrow	.60 hr.	.03	.02	.20
4-row lister planter	.61 hr.	.47	.28	2.80
4-row cultivator	1.31 hr.	.67	.88	8.80
<u>Materials:</u>				
Irrigation water	25.8 ac"	.22	5.80	58.00
Seed	10 lb.	.08	.80	8.00
<u>Labor:</u>				
Driver	5.39 hr.	1.00	5.39	53.90
Irrigator	9.69 hr.	.90	8.72	87.20
General	.31 hr.	.90	.28	2.80
Sco. Sec. & Comp. Insur. <u>b/</u>			.84	8.35
<u>Contracts:</u>				
Harvest	24 cwt	.10	6.00	60.00
Haul	24 cwt	.14	2.40	24.00
Storage			3.46	34.60
Insurance (\$1.50/\$100 of value)			.99	9.90
Interest on operating capital <u>c/</u>			.92	9.24
Total Variable			43.28	432.79
Total Cost			68.48	684.81

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5%.

Source: Calculated from survey data.

U.S. and Canada for Treatment

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14.000 x total 1000000

2000 1000 500 0

TABLE 33

Inputs and Costs for Producing Field Corn,  
320-1 Farm

Item	1955			
	Acres: 83 — Yield: 35 cwt			
	Units used per acre a/	Unit cost a/	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.77	644.80
Office		1.00	1.12	93.00
Improvements		.10	.11	9.50
Power			9.24	766.92
Equipment			5.25	435.75
Irrigation water			7.10	589.30
TOTAL FIXED			30.59	2,539.27
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor	2.52 hr.	.94	2.37	196.71
W-2 tractor	2.23 hr.	.81	1.80	149.40
Pickup truck	65 mi.	.03	2.14	177.62
<u>Equipment:</u>				
5' ditcher	.15 hr.	.13	.02	1.66
10' scraper	.15 hr.	.48	.07	5.81
Plow, 2w/2-16"	.75 hr.	.60	.45	37.35
8' offset disk	.35 hr.	3.74	1.31	108.73
12' offset disk	1.12 hr.	.62	.69	57.27
16' spiketooth harrow	.60 hr.	.03	.02	1.66
4-row lister planter	.61 hr.	.49	.30	24.90
4-row cultivator	1.62 hr.	.69	1.12	92.96
<u>Materials:</u>				
Irrigation water	39 ac <sup>b</sup>	.22	8.70	722.10
Seed	10 lb.	.26	2.60	215.80
<u>Labor:</u>				
Drivers	6.37 hr.	1.00	6.37	528.71
Irrigators	14.64 hr.	.90	13.18	1,093.94
General	.31 hr.	.90	.28	23.24
Soc. Sec. & Comp. Insur. b/			1.15	95.46
<u>Contracts:</u>				
Fertilize (N)	119 lb.		14.25	1,182.75
Pick			10.00	830.00
Shell	35 cwt	.12	4.38	363.54
Haul	35 cwt	.10	3.50	290.50
Interest on operating capital c/			1.71	141.78
Total Variable			76.41	6,341.89
Total Cost			107.00	8,881.16

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5%.

Source: Calculated from survey data.



Summary of Costs for Operating Plant, 1951-1952

Operating Costs			
Item	1951	1952	1951-1952
Electricity	1,000.00	1,100.00	100.00
Gas	500.00	550.00	50.00
Oil	200.00	220.00	20.00
Water	100.00	110.00	10.00
Repairs	150.00	160.00	10.00
Salaries	1,200.00	1,300.00	100.00
Supplies	300.00	320.00	20.00
Depreciation	800.00	800.00	0.00
Interest	100.00	100.00	0.00
Insurance	50.00	50.00	0.00
Other	100.00	100.00	0.00
<b>Total</b>	<b>4,050.00</b>	<b>4,550.00</b>	<b>500.00</b>

1951-1952 Total Labor Costs

1951-1952 Total Plant Costs (from Chapter 1, Table 1)

Source: Calculated from survey data.

TABLE 34

Inputs and Costs for Producing Barley,  
320-2 Farm

Item	1955			
	Acres: 103 — Yield: 23 cwt			
	Units used per acre <u>a/</u>	Unit cost <u>a/</u>	Cost per acre	Total cost
1	2	3	4	5
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.27	748.80
Office		1.00	1.05	108.00
Improvements		.10	.11	11.03
Power			4.81	495.43
Equipment			1.97	202.91
Irrigation water			2.64	271.92
<b>TOTAL FIXED</b>			17.85	1,838.09
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor	.71 hr.	1.10	.78	80.34
W-1 tractor	.22 hr.	.75	.17	17.51
W-2 tractor	.22 hr.	.85	.19	19.57
Pickup truck	62 mi.	.03	2.03	209.09
<u>Equipment:</u>				
12' offset disk	.56 hr.	.72	.40	41.20
Border disk	.22 hr.	.77	.17	17.51
16' spiketooth harrow	.30 hr.	.03	.01	1.03
20' spiketooth harrow	.15 hr.	.04	.01	1.03
Broadcaster (rented)	.22 hr.	.25	.06	6.18
<u>Materials:</u>				
Irrigation water	12 ac"	.25	2.96	304.88
Seed	90 lb.	.04	3.60	370.80
<u>Labor:</u>				
Driver	2.69 hr.	1.00	2.69	277.07
Irrigator	4.50 hr.	.90	4.05	417.15
General	.22 hr.	.90	.20	20.60
Soc. Sec. & Comp. Insur. <u>b/</u>			.40	41.46
<u>Contracts:</u>				
Harvest			5.00	515.00
Haul	23 cwt	.10	2.30	236.90
Storage	23 cwt	.14	3.31	340.93
Insurance (\$1.50/\$100 value)			.74	76.22
Interest on operating capital <u>c/</u>			.66	67.91
<b>Total Variable</b>			29.73	3,062.38
<b>Total Cost</b>			47.58	4,900.47

a/ Rounded.

b/ 5.8% x total labor cost.

c/ Total of variable costs (less operator labor)  $\div$  2, x 5%.

Source: Calculated from survey data.

Table 1. Summary of the data for the year 1961.

Operating Costs			
Item	Cost	Quantity	Unit Cost
Electricity	1.00	100	0.01
Gas	1.00	100	0.01
Oil	1.00	100	0.01
Water	1.00	100	0.01
Telephone	1.00	100	0.01
Postage	1.00	100	0.01
Travel	1.00	100	0.01
Repairs	1.00	100	0.01
Insurance	1.00	100	0.01
Depreciation	1.00	100	0.01
Interest	1.00	100	0.01
Income Tax	1.00	100	0.01
Provision for Bad Debts	1.00	100	0.01
Provision for Doubtful Accounts	1.00	100	0.01
Provision for Inventory	1.00	100	0.01
Provision for Depreciation	1.00	100	0.01
Provision for Amortization	1.00	100	0.01
Provision for Deferred Income Tax	1.00	100	0.01
Provision for Other	1.00	100	0.01
Total	1.00	100	0.01

Total of variable costs (less operating labor) ÷ 2 = 1.00

1.00 x total labor cost.

2.00 x total labor cost.



TABLE 35

Farm Product Selling Prices, 1953 and 1955

<u>Product</u> <u>1</u>	<u>Unit</u> <u>2</u>	<u>1955</u> <u>3</u>	<u>1953</u> <u>4</u>
Alfalfa hay	ton	\$ 26.00	\$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt	2.15	2.70
Corn	cwt	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt	2.30	2.75
Potatoes (early)	cwt	1.85	1.42
Sugar beets	ton	13.50	13.50

# TABLE 1

Summary of results of the study

Year	Sample	Method	Results
1960	1000	Interview	1000
1961	1000	Interview	1000
1962	1000	Interview	1000
1963	1000	Interview	1000
1964	1000	Interview	1000
1965	1000	Interview	1000
1966	1000	Interview	1000
1967	1000	Interview	1000
1968	1000	Interview	1000
1969	1000	Interview	1000
1970	1000	Interview	1000
1971	1000	Interview	1000
1972	1000	Interview	1000
1973	1000	Interview	1000
1974	1000	Interview	1000
1975	1000	Interview	1000
1976	1000	Interview	1000
1977	1000	Interview	1000
1978	1000	Interview	1000
1979	1000	Interview	1000
1980	1000	Interview	1000
1981	1000	Interview	1000
1982	1000	Interview	1000
1983	1000	Interview	1000
1984	1000	Interview	1000
1985	1000	Interview	1000
1986	1000	Interview	1000
1987	1000	Interview	1000
1988	1000	Interview	1000
1989	1000	Interview	1000
1990	1000	Interview	1000
1991	1000	Interview	1000
1992	1000	Interview	1000
1993	1000	Interview	1000
1994	1000	Interview	1000
1995	1000	Interview	1000
1996	1000	Interview	1000
1997	1000	Interview	1000
1998	1000	Interview	1000
1999	1000	Interview	1000
2000	1000	Interview	1000
2001	1000	Interview	1000
2002	1000	Interview	1000
2003	1000	Interview	1000
2004	1000	Interview	1000
2005	1000	Interview	1000
2006	1000	Interview	1000
2007	1000	Interview	1000
2008	1000	Interview	1000
2009	1000	Interview	1000
2010	1000	Interview	1000
2011	1000	Interview	1000
2012	1000	Interview	1000
2013	1000	Interview	1000
2014	1000	Interview	1000
2015	1000	Interview	1000
2016	1000	Interview	1000
2017	1000	Interview	1000
2018	1000	Interview	1000
2019	1000	Interview	1000
2020	1000	Interview	1000

TABLE 36

## Farm Service Purchasing Prices, 1953-1955

<u>Labor Rates</u>			<u>Contract Services (continued)</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Tractor driver		\$1.00 per hr.	Dust (5% DDT - 75% S)- (application)	lb.	\$ .04
Pickup driver		1.00 per hr.	Defoliate (1 qt. sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Truck driver		1.00 per hr.	Dust (2% Parathion)-(appln.)	lb.	.05
Irrigator		.90 per hr.			
General		.90 per hr.			
Compensation Insurance	3.8% of labor cost		<u>Barley</u>		
Social Security	2.0% of labor cost		Harvest	acre	5.00
			Haul	cwt	.10
			Storage	cwt	.144
<u>Equipment Rentals</u>			Insurance	\$1.50 per \$100 of Value	
4' ditcher		\$ .50 per hr.			
4' scraper		.50 per hr.			
10' x 60' landplane		2.00 per hr.	<u>Corn</u>		
Border disk		.50 per hr.	Chop, haul, unload	ton	2.25
12' springtooth		.50 per hr.	Shell	cwt	.125
2 row planter		.50 per hr.	Pick	acre	10.00
Fertilizer attachment		.50 per hr.	Haul	cwt	.10
Fertilizer spreader		1.00 per hr.	Dry	cwt	.175
Stalk cutter		1.00 per hr.	Storage	cwt	.144
Broadcaster		.25 per hr.	Insurance	\$1.50 per \$100 of Value	
			Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.75
<u>Contract Services</u>			<u>Cotton</u>		
<u>Alfalfa</u>			Hand thin	acre	5.00
Bale	ton	3.50	Hand weed	acre	5.00
Roadside	ton	1.75	Pick (hand)	bale	42.00
Bees	colony	5.00	Pick (machine)	bale	24.50
Weed	acre	15.00	Gin	bale	14.70
Harvest	lb.	.03	Insurance & Storage	bale	1.19
Certify	acre	10.12	Dust (5% DDT - 50% S)- (application)	lb.	.05
Box rental	acre	1.00	Defoliate (NaClO <sub>3</sub> w/Borate or Mg)-(application)	acre	2.50
Fertilize (super phosphate)- (application)	acre	1.10	Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.50
			Gypsum - (application)	ton	1.50



Description		Quantity	Unit Price	Total
1. 1st class (1st class) - 1st class		1.00	1.00	1.00
2. 2nd class (2nd class) - 2nd class		1.00	1.00	1.00
3. 3rd class (3rd class) - 3rd class		1.00	1.00	1.00
4. 4th class (4th class) - 4th class		1.00	1.00	1.00
5. 5th class (5th class) - 5th class		1.00	1.00	1.00
6. 6th class (6th class) - 6th class		1.00	1.00	1.00
7. 7th class (7th class) - 7th class		1.00	1.00	1.00
8. 8th class (8th class) - 8th class		1.00	1.00	1.00
9. 9th class (9th class) - 9th class		1.00	1.00	1.00
10. 10th class (10th class) - 10th class		1.00	1.00	1.00
11. 11th class (11th class) - 11th class		1.00	1.00	1.00
12. 12th class (12th class) - 12th class		1.00	1.00	1.00
13. 13th class (13th class) - 13th class		1.00	1.00	1.00
14. 14th class (14th class) - 14th class		1.00	1.00	1.00
15. 15th class (15th class) - 15th class		1.00	1.00	1.00
16. 16th class (16th class) - 16th class		1.00	1.00	1.00
17. 17th class (17th class) - 17th class		1.00	1.00	1.00
18. 18th class (18th class) - 18th class		1.00	1.00	1.00
19. 19th class (19th class) - 19th class		1.00	1.00	1.00
20. 20th class (20th class) - 20th class		1.00	1.00	1.00
21. 21st class (21st class) - 21st class		1.00	1.00	1.00
22. 22nd class (22nd class) - 22nd class		1.00	1.00	1.00
23. 23rd class (23rd class) - 23rd class		1.00	1.00	1.00
24. 24th class (24th class) - 24th class		1.00	1.00	1.00
25. 25th class (25th class) - 25th class		1.00	1.00	1.00
26. 26th class (26th class) - 26th class		1.00	1.00	1.00
27. 27th class (27th class) - 27th class		1.00	1.00	1.00
28. 28th class (28th class) - 28th class		1.00	1.00	1.00
29. 29th class (29th class) - 29th class		1.00	1.00	1.00
30. 30th class (30th class) - 30th class		1.00	1.00	1.00
31. 31st class (31st class) - 31st class		1.00	1.00	1.00
32. 32nd class (32nd class) - 32nd class		1.00	1.00	1.00
33. 33rd class (33rd class) - 33rd class		1.00	1.00	1.00
34. 34th class (34th class) - 34th class		1.00	1.00	1.00
35. 35th class (35th class) - 35th class		1.00	1.00	1.00
36. 36th class (36th class) - 36th class		1.00	1.00	1.00
37. 37th class (37th class) - 37th class		1.00	1.00	1.00
38. 38th class (38th class) - 38th class		1.00	1.00	1.00
39. 39th class (39th class) - 39th class		1.00	1.00	1.00
40. 40th class (40th class) - 40th class		1.00	1.00	1.00
41. 41st class (41st class) - 41st class		1.00	1.00	1.00
42. 42nd class (42nd class) - 42nd class		1.00	1.00	1.00
43. 43rd class (43rd class) - 43rd class		1.00	1.00	1.00
44. 44th class (44th class) - 44th class		1.00	1.00	1.00
45. 45th class (45th class) - 45th class		1.00	1.00	1.00
46. 46th class (46th class) - 46th class		1.00	1.00	1.00
47. 47th class (47th class) - 47th class		1.00	1.00	1.00
48. 48th class (48th class) - 48th class		1.00	1.00	1.00
49. 49th class (49th class) - 49th class		1.00	1.00	1.00
50. 50th class (50th class) - 50th class		1.00	1.00	1.00
51. 51st class (51st class) - 51st class		1.00	1.00	1.00
52. 52nd class (52nd class) - 52nd class		1.00	1.00	1.00
53. 53rd class (53rd class) - 53rd class		1.00	1.00	1.00
54. 54th class (54th class) - 54th class		1.00	1.00	1.00
55. 55th class (55th class) - 55th class		1.00	1.00	1.00
56. 56th class (56th class) - 56th class		1.00	1.00	1.00
57. 57th class (57th class) - 57th class		1.00	1.00	1.00
58. 58th class (58th class) - 58th class		1.00	1.00	1.00
59. 59th class (59th class) - 59th class		1.00	1.00	1.00
60. 60th class (60th class) - 60th class		1.00	1.00	1.00
61. 61st class (61st class) - 61st class		1.00	1.00	1.00
62. 62nd class (62nd class) - 62nd class		1.00	1.00	1.00
63. 63rd class (63rd class) - 63rd class		1.00	1.00	1.00
64. 64th class (64th class) - 64th class		1.00	1.00	1.00
65. 65th class (65th class) - 65th class		1.00	1.00	1.00
66. 66th class (66th class) - 66th class		1.00	1.00	1.00
67. 67th class (67th class) - 67th class		1.00	1.00	1.00
68. 68th class (68th class) - 68th class		1.00	1.00	1.00
69. 69th class (69th class) - 69th class		1.00	1.00	1.00
70. 70th class (70th class) - 70th class		1.00	1.00	1.00
71. 71st class (71st class) - 71st class		1.00	1.00	1.00
72. 72nd class (72nd class) - 72nd class		1.00	1.00	1.00
73. 73rd class (73rd class) - 73rd class		1.00	1.00	1.00
74. 74th class (74th class) - 74th class		1.00	1.00	1.00
75. 75th class (75th class) - 75th class		1.00	1.00	1.00
76. 76th class (76th class) - 76th class		1.00	1.00	1.00
77. 77th class (77th class) - 77th class		1.00	1.00	1.00
78. 78th class (78th class) - 78th class		1.00	1.00	1.00
79. 79th class (79th class) - 79th class		1.00	1.00	1.00
80. 80th class (80th class) - 80th class		1.00	1.00	1.00
81. 81st class (81st class) - 81st class		1.00	1.00	1.00
82. 82nd class (82nd class) - 82nd class		1.00	1.00	1.00
83. 83rd class (83rd class) - 83rd class		1.00	1.00	1.00
84. 84th class (84th class) - 84th class		1.00	1.00	1.00
85. 85th class (85th class) - 85th class		1.00	1.00	1.00
86. 86th class (86th class) - 86th class		1.00	1.00	1.00
87. 87th class (87th class) - 87th class		1.00	1.00	1.00
88. 88th class (88th class) - 88th class		1.00	1.00	1.00
89. 89th class (89th class) - 89th class		1.00	1.00	1.00
90. 90th class (90th class) - 90th class		1.00	1.00	1.00
91. 91st class (91st class) - 91st class		1.00	1.00	1.00
92. 92nd class (92nd class) - 92nd class		1.00	1.00	1.00
93. 93rd class (93rd class) - 93rd class		1.00	1.00	1.00
94. 94th class (94th class) - 94th class		1.00	1.00	1.00
95. 95th class (95th class) - 95th class		1.00	1.00	1.00

Table 36  
—continued—

Farm Service Purchasing Prices, 1953-1955

Contract Services (continued)

<u>1</u>	<u>2</u>	<u>3</u>
<u>Melons</u>		
Turn vines	acre	\$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & Haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP- (appln.)	lb.	.05
Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.25

Milo

Harvest	acre	6.00
Haul	cwt	.10
Storage	cwt	.144
Insurance	\$1.50 per \$100 of Value	

Potatoes

Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt	.16
Haul	cwt	.075
Shed costs	cwt	.55
Dust (5% DDT - 50% S)- (application)	lb.	.05

Contract Services (continued)

<u>4</u>	<u>5</u>	<u>6</u>
<u>Sugar Beets</u>		
Thin	acre	\$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.25

Preparing Seedbed

Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75





TABLE 37

## Farm Materials Purchasing Prices, 1953-1955

<u>Alfalfa</u>			<u>Melons</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Seed (common)	lb.	\$ .32	Seed	lb.	\$1.45
Seed (caliverde)	lb.	.34	Dust 5% DDT	lb.	.07
Seed (certified ranger)	lb.	.40	1% TEPP	lb.	.16
Fertilizer (super phosphate)	lb.	.020	Fertilizer (NH <sub>3</sub> )	lb.	.085
Dust (5% DDT - 75% S)	lb.	.0925	<u>Milo</u>		
Dust (2% Parathion)	lb.	.121	Seed	lb.	.08
Sinox Defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90	<u>Permanent Pasture</u>		
Baling Wire	ton	.50	Seed	lb.	.50
<u>Barley</u>			Fertilizer (16-20)	lb.	.045
Seed	lb.	.04	<u>Potatoes</u>		
<u>Corn</u>			Seed (cut & dipped)	cwt	6.30
Seed	lb.	.26	Fertilizer (17-7-0)	lb.	.0375
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032	Dust (5% DDT - 50% S)	lb.	.085
Fertilizer (NH <sub>3</sub> )	lb.	.105	<u>Sugar Beets</u>		
<u>Cotton</u>			Seed	lb.	.46
Seed (acid delinted)	lb.	.115	Fertilizer (NH <sub>3</sub> )	lb.	.095
Seed (machine delinted)	lb.	.081			
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032			
Dust (5% DDT - 50% S)	lb.	.085			
Defoliant (NaClO <sub>3</sub> w/ Borate or Mg)	lb.	.175			
Fertilizer (NH <sub>3</sub> )		<u>1/</u>			
Gypsum	ton	2.50			

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1/ \$ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .085/lb. for 50 tons and over.



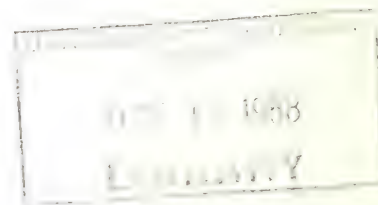


## INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments  
and Earnings Under 1955 Cotton Acreage  
Allotments)

### 4. Central San Joaquin Valley Cotton Farms, 1953-1955

Douglas D. Caton  
Trimble R. Hedges  
W. Neill Schaller



**CALIFORNIA AGRICULTURAL EXPERIMENT STATION  
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS**

In Cooperation with FARM ECONOMICS RESEARCH DIVISION  
AGRICULTURAL RESEARCH SERVICE, U.S.D.A.

Mimeographed Report No. 209.

July 1958





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This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the Central San Joaquin Valley resulted from a study by the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Farm Economics Research Division, Agricultural Research Service, United States Department of Agriculture.

H. Russell Shaw and J. Herbert Snyder, Assistant Professors of Agricultural Economics, Assistant Agricultural Economists in the Experiment Station, and on the Giannini Foundation, contributed heavily in collecting the field data. Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation, shared in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head, Western Field Research Section, and M. L. Upchurch, Head, Western Field Research Section, all of the Farm Economics Research Division, participated in outlining and developing the project research plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

Finally the credit for the statistical and stenographic work goes to personnel in the Giannini Foundation.

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This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the Central San Joaquin Valley resulted from a study by the Statistical Section of Agricultural Economics, California Agricultural Experiment Station, and the Farm Economics Research Division, Agricultural Research Service, United States Department of Agriculture. H. Marshall Shaw and J. Herbert Snyder, Assistant Professors of Agricultural Economics, Assistant Agricultural Economists in the Experiment Station, and on the Statistical Section, contributed heavily in collecting the field data. Charles C. Garry, Assistant Specialist in the Experiment Station and on the Statistical Section, shared in the analysis.

Eastern Field Research Section, and L. L. Uchirich, Head, Eastern Field Research Section, all of the Farm Economics Research Division, participated in collecting and analyzing the cotton acreage allotment data.

We are indebted to the many, many, and many individuals at various State and Federal agencies serving agriculture for making information available to this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files; and the California Agricultural Experiment Station for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1957.

Finally the credit for the statistical and geographic work goes to personnel in the Statistical Section.



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# INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings  
Under 1955 Cotton Acreage Allotments)

4. Central San Joaquin Valley Cotton Farms; 1953-1955<sup>1/</sup>

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller<sup>2/</sup>

## FOREWORD

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Central San Joaquin Valley. We obtained these data by interviewing farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of three farm sizes; these include 80-, 160-, and 320-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these three sizes. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Tables 1-3 present factual information obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. They indicate farm size, numbers, and cropland use from 1953 to 1955. Succeeding tables deal with the three farm size models that we analyzed. The data for the 80-acre unit will serve to indicate the kind and amount of information that this report includes for each of the three farm sizes. First appears Table 4. Physical Resources and Investments for the Typical 80-acre Farm, 1955 prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-13 include the physical inputs and costs for producing cotton and other crops on the 80-acre farm model.

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<sup>1/</sup> This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments, 4. Central San Joaquin Valley Cotton Farms, 1953-1955, Giannini Mimeographed Report No. 208, the fourth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(W), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

<sup>2/</sup> Douglas D. Caton and W. Neill Schaller are Agricultural Economists, Farm Economics Research Division, Western Field Research Section, Agricultural Research Service, U. S. Department of Agriculture, and Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.



# INCOME AND COSTS FOR PRODUCE FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings  
Under 1955 Cotton Acreage Allotments)

4. Central San Joaquin Valley Cotton Farms, 1952-1955

Douglas D. Caton, Trimble R. Hodges, and W. Neil Schaller

We present in the following pages some highly detailed factual information that we assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the Central San Joaquin Valley. We obtained these data by interviewing farmers and from official sources related to agriculture. The information we have as a result of these interviews with each of three farm sizes; these include 50-, 100-, and 250-acre cotton farms. Such detailed data were essential for our analysis of farm resources use and earnings before and after allotments. Certainly, the same information should prove useful for others who are studying the organization and internal workings of family farms in these areas. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Tables 1-3 present factual information obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. They indicate farm size, number, and cropland use from 1953 to 1955. Subsequent tables deal with the rice farm size model that we analyzed. The data for the 50-acre unit will serve to indicate the kind and amount of information that this report includes for each of the three farm sizes. First appears Table 4. Physical Resources and Investments for the Typical 50-acre Farm, 1955 prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-13 indicate the physical inputs and costs for producing cotton and other crops on the 50-acre farm model.

Trimble R. Hodges, and W. Neil Schaller, Eds.  
The authors are grateful to the California Agricultural Stabilization and Conservation Committee for the use of its files. The fourth of a series of papers in detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1041, and is partially supported under Line Project PE 63-5(4), Farm Income Research Division, Western Field Research Section, U. S. Department of Agriculture.

Douglas D. Caton and W. Neil Schaller are Agricultural Economists, Research Service, U. S. Department of Agriculture, and Trimble R. Hodges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.

Subsequent tables repeat this same sequence for each of the other two farm sizes (Tables 14-25 for the two 160-acre models, and Tables 26-39 for the 320-acre unit).

The last three tables in this statistical supplement contain the prices for farm products (Table 40), input services hired or rented (Table 41), and materials (Table 42).

Independent for a report this same volume for each of the other two  
form three (Table 10-25 for the two 10-25 series, and Table 10-27 for

The last three tables in this section contain the data  
for form reduced (Table 10-28), form reduced (Table 10-29), and  
reduced (Table 10-30).



TABLE 1

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955,  
Central San Joaquin Valley

Cropland class intervals	Number of farms	Cropland		Total cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 a/	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 20	310	14.2	4,392	2,447	2,385	3,053	2,343	606	- 104
21 - 60	491	39.4	19,359	10,138	8,847	7,804	5,988	- 2,334	- 4,150
61 - 100	271	78.4	21,241	11,010	8,839	7,569	5,807	- 3,441	- 5,203
101 - 220	307	150.0	46,064	21,350	18,276	14,933	11,457	- 6,417	- 9,893
221 - 420	156	295.6	46,113	22,028	17,958	14,787	11,345	- 7,241	-10,683
421 - 660	75	523.8	39,284	17,000	14,251	11,835	9,080	- 5,165	- 7,920
661 - 1,100	49	886.4	43,434	16,168	12,565	11,460	8,793	- 4,708	- 7,375
1,101 + above	52	2,570.2	133,652	36,741	30,418	25,920	19,887	-10,821	-16,854
Total	1,711	206.6	353,539	136,882	113,539	97,361	74,700	-39,521	-62,182

a/ Estimated.

Source: California Agricultural Stabilization and Conservation Committee.

9. "E. J. 1035-3"

TABLE 2

Land Use on Cotton Farms, 1953-1955:  
Central San Joaquin Valley

Cropland class interval	Mid- point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
					number reporting	total acres	number reporting	total acres	total acres reported	average acres per farm
			total	average						
	1	2	3	4	5	6	7	8	9	10
1 - 20	10	28	410	14.6	14	406	4	29	845	30.2
21 - 60	40	77	3,044	39.5	21	317	19	120	3,481	45.2
61 - 100	80	61	4,921	80.7	18	927	20	340	6,188	101.4
101 - 220	160	68	10,385	152.7	5	251	21	376	11,012	161.9
221 - 420	320	36	10,582	293.9	7	531	12	630	11,743	326.2
421 - 660	540	20	10,660	533.0	4	167	9	519	11,346	567.3
661 - 10,000	5330	19	31,538	1,659.9			7	11,379	42,917	2,258.8
Total		309	71,540	231.5	69	2,599	92	13,393	87,532	283.3

Source: Questionnaire returns, 1954.





TABLE 3

Farm Size, Average Cotton Acres, and Acres Diverted, 1954 and 1955:  
Central San Joaquin Valley

Cropland class intervals	Number of farms	Cropland		Average cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 <sup>a/</sup>	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 20	310	14.2	4,392	7.9	11.5	9.8	7.6	1.95	- .34
21 - 60	491	39.4	19,359	20.6	26.2	15.9	12.2	- 4.75	- 8.45
61 - 100	271	78.4	21,241	40.6	46.0	27.9	21.4	- 12.70	- 19.20
101 - 220	307	150.0	46,064	69.5	76.5	48.6	37.3	- 20.90	- 32.22
221 - 420	156	295.6	46,113	141.2	140.3	94.8	72.7	- 46.42	- 68.48
421 - 660	75	523.8	39,284	226.7	222.7	157.8	121.1	- 68.87	-105.60
661 - 1,100	49	886.4	43,434	330.0	322.2	233.9	179.4	- 96.08	-150.51
1,101 + above	52	2,570.2	133,652	706.6	691.3	498.5	382.4	-208.10	-324.12
Total	1,711	206.6	353,539	80.0	90.8	56.9	43.7	- 23.10	- 36.34

<sup>a/</sup> Estimated.

Source: California Agricultural Stabilization and Conservation Committee.

Time	Temp	Wind	Clouds	Pressure	Humidity	Visibility	Sea	Weather	Remarks
0000	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0100	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0200	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0300	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0400	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0500	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0600	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0700	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0800	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
0900	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1000	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1100	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1200	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1300	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1400	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1500	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1600	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1700	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1800	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
1900	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
2000	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
2100	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
2200	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0
2300	10.0	0.0	0.0	1010.0	100%	10.0	0.0	0.0	0.0



TABLE 4

6.

Physical Resources and Investments for Typical 80-acre Farm,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
	1	2	3	4	5	6
dollars						
<b>Land:</b>						
Total	80 acres					
Total cultivated	74 acres					
<b>Improvements:</b>						
Tractor shed		1		500.00		250.00
Shop storage shed		1		1,000.00		500.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Subtotal				1,635.00		817.50
<b>Irrigation system:</b>						
Pumping plant	15 h.p.; 500 g.p.m.	2	1,675.00	3,350.00	858.44	1,716.88
Well, casing	12" diameter; 90' lift	2 x 175'	4.15	1,452.50	2.08	726.25
Pipe	12"	2,640'	.80	2,112.00	.40	1,056.00
Stands	7' x 36"	2	63.00	126.00	31.50	63.00
Vents	7' x 8"	2	4.90	9.80	2.45	4.90
Alfalfa valves	12"	40	18.56	742.40	9.28	371.20
Siphons	1 1/2"	100	1.50	150.00	.75	75.00
Subtotal				7,942.70		4,013.23
<b>Power:</b>						
Wheel tractor - A	W-1	1		2,600.00		1,820.00
Wheel tractor - B	W-1	1		2,000.00		1,400.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
Subtotal				6,600.00		4,420.00
<b>Equipment:</b>						
Plow, 2 way	2-16"	1		550.00		275.00
Disk, offset	5' 3"	1		300.00		150.00
Disk, tandem	6'	1		400.00		200.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	2-row	1		350.00		175.00
Cultivator	2-row	1		350.00		175.00
Cotton trailer	5-bale	1		400.00		220.00
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Subtotal				3,635.00		1,837.50
Total				19,812.70		11,088.23

<sup>a/</sup> New cost + Salvage value

2

No salvage values, except as follows: W-1 tractor - A: \$1,040      5-bale cotton  
W-1 tractor - B: \$ 800      trailer      \$40  
Pickup truck: \$ 400      Pumping plant: \$80 each

Source: Calculated from survey data.



TABLE 5  
Calendar of Operations and Physical Inputs Per Acre for Producing Cotton  
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements			
		men	power	equipment		man- hours	tractor hours	material	
								1953	1955
	1	2	3	4	5	6	7	8	9
	Cut stalks	1	W-1	2-row stalk cutter (rented)	18	.50	.50	4.2 ac.in.	5 ac.in.
	Disk 2X	1	W-1	5'3" offset disk	16	1.12	1.12		
	Plow	1	W-1	2 way/2-16"	7	1.28	1.28		
	Furrow out	1	W-1	2-row lister-planter	18	.50	.50		
	Make head ditches*	1	W-1	4' ditcher (rented)		.25	.25		
	Preirrigate	1							
	Fill in ditches*	1	W-1	4' scraper (rented)		.25	.25		
	Disk 2X w/harrow	1	W-1	6' tandem disk w/8' spiketooth	15	1.20	1.20		
4/1-4/15	Plant	2	W-1	2-row lister-planter	16	1.12	.56	35# delint seed	
4/25-5/5	Cultipack	1	W-1	10' cultipacker	33	.27	.27		
	Cultivate (1)	1	W-1	2-row cultivator	10	.90	.90		
	Hand thin - contract								
	Cultivate (2)	1	W-1	2-row cultivator	12	.75	.75		
	Cultivate & fertilize (3)	1	W-1	2-row cultivator w/ fertilizer attach- ment (rented)	12	.75	.75	325# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	333# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
	Irrigate (1)							3 ac.in.	3 ac.in.
	Hand weed - contract								
	Cultivate (4)	1	W-1	2-row cultivator	14	.64	.64		
7/1-8/15	Irrigate (2)							3 ac.in.	3 ac.in.
	Cultivate (5)	1	W-1	2-row cultivator	14	.64	.64		
	Dust 2X - contract							60# 5% DDT	50% S
7/10-7/20	Irrigate (3)							3 ac.in.	3 ac.in.
	Cultivate and lay by(6)	1	W-1	2-row cultivator	14	.64	.64		
7/20-9/15	Irrigate 8X (4-11)							18 ac.in.	22 ac.in.
	1st pick,hand-contract								
	2nd pick,hand-contract								
	Haul to gin	1	Pickup	5-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

\* Occurs 5X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



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TABLE 6

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa  
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
5/1-5/20	Irrigate 1X	1						4.4 ac. in.
	Cut*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
6/1-6/20	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
7/1-7/20	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
8/1-8/20	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
9/1-9/20	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

\* No cutting for first year of stand.

Source: Calculated from survey data.

Source: Estimated from survey data.  
 1. No estimate for other areas of survey.

Area	Type of Survey	No. of Sites	No. of Samples	No. of Animals	No. of Birds	No. of Fish	No. of Insects	No. of Plants	No. of Other
1/1-3/30	1/1-3/30	1	1	1	1	1	1	1	1
	1/1-3/30	1	1	1	1	1	1	1	1
	1/1-3/30	1	1	1	1	1	1	1	1
	1/1-3/30	1	1	1	1	1	1	1	1
1/1-6/30	1/1-6/30	1	1	1	1	1	1	1	1
	1/1-6/30	1	1	1	1	1	1	1	1
	1/1-6/30	1	1	1	1	1	1	1	1
	1/1-6/30	1	1	1	1	1	1	1	1
1/1-1/30	1/1-1/30	1	1	1	1	1	1	1	1
	1/1-1/30	1	1	1	1	1	1	1	1
	1/1-1/30	1	1	1	1	1	1	1	1
	1/1-1/30	1	1	1	1	1	1	1	1
1/1-4/30	1/1-4/30	1	1	1	1	1	1	1	1
	1/1-4/30	1	1	1	1	1	1	1	1
	1/1-4/30	1	1	1	1	1	1	1	1
	1/1-4/30	1	1	1	1	1	1	1	1
1/1-7/30	1/1-7/30	1	1	1	1	1	1	1	1
	1/1-7/30	1	1	1	1	1	1	1	1
	1/1-7/30	1	1	1	1	1	1	1	1
	1/1-7/30	1	1	1	1	1	1	1	1
1/1-2/30	1/1-2/30	1	1	1	1	1	1	1	1
	1/1-2/30	1	1	1	1	1	1	1	1
	1/1-2/30	1	1	1	1	1	1	1	1
	1/1-2/30	1	1	1	1	1	1	1	1

Estimated number of birds and plants per site for producing wildlife



TABLE 7

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa Stand  
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
2/1-3/15	Disk 2X - contract							
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	W-1	5'3" offset disk	16	.56	.56	
	Preirrigate	1						8 ac. in.
	Disk with harrow	1	W-1	5'3" offset w/8' spiketooth	14	.64	.64	
	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	25# seed
	Harrow	1	W-1	12' spiketooth	40	.22	.22	
	Dust - contract							12.5# of 2% parathion

Source: Calculated from survey data.

5/1-3/12	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00
	disk	1	100	100.00	100.00	100.00	100.00	100.00
	disk with hollow	1	100	100.00	100.00	100.00	100.00	100.00
	disk with hollow	1	100	100.00	100.00	100.00	100.00	100.00
	disk	1	100	100.00	100.00	100.00	100.00	100.00
	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00
	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00
	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00
	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00
	disk - compact	1	100	100.00	100.00	100.00	100.00	100.00

These figures are preliminary and subject to change without notice.

TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn  
80-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	W-1	5'3" offset disk	16	1.12	1.12	
	Plow	1	W-1	2 way/2-16"	7	1.28	1.28	
	Furrow out	1	W-1	2-row lister-planter	18	.50	.50	
	Make head ditches*	1	W-1	4' ditcher (rented)		.15	.15	
	Preirrigate							6 ac. in.
	Fill in ditches*	1	W-1	4' scraper (rented)		.15	.15	
	Disk 2X w/harrow	1	W-1	6' tandem disk w/8' spiketooth	15	1.20	1.20	
3/25-4/10	Plant	2	W-1	2-row lister-planter	16	1.12	.56	10# seed
4/10-4/25	Cultivate	1	W-1	2-row cultivator	10	.90	.90	
4/25-5/10	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
5/10-5/25	Cultivate & fertilize	1	W-1	2-row cultivator w/ fertilizer attachment (rented)	10	.90	.90	475# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
5/25-6/10	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
6/1-6/15	Irrigate (1)	1						5 ac. in.
6/10-6/25	Cultivate	1	W-1	2-row cultivator	12	.75	.75	
6/15-9/1	Irrigate 5X							25 ac. in.
9/20-10/20	Pick & haul - contract							
	Shell - contract							

\* Occurs 3X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



80-5014 1910

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TABLE 9

Inputs and Costs for Producing Cotton,  
80-acre Farm

Item	1953				1955			
	Acres: 42 — Yield: 1.25 bales				Acres: 23 — Yield: 1.50 bales			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.18	301.60		6.50	7.23	166.40
Office		2.03	2.07	87.00		2.03	2.09	48.00
Improvements		1.82	1.86	9.41		1.82	1.87	26.88
Power			16.13	677.46			24.58	565.34
Equipment			8.29	348.18			11.95	274.85
Irrigation water			7.02	294.84			7.20	165.60
Total fixed			42.55	1,718.49			54.92	1,247.07
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1 - A	10.25 hr.	.56	5.77	242.34	10.25 hr.	.71	7.24	166.52
Pickup truck	131.57 mi.	.04	5.00	210.00	156.26 mi.	.04	5.94	136.62
<b>Equipment (owned):</b>								
Plow, 2w/2-16"	1.28 hr.	1.37	1.75	73.50	1.28 hr.	1.70	2.17	49.91
5'3" offset disk	1.12 hr.	.75	.84	35.28	1.12 hr.	.85	.95	21.85
6' tandem disk	1.20 hr.	1.06	1.28	53.76	1.20 hr.	1.32	1.58	36.34
8' spiketooth harrow	1.20 hr.	.03	.03	1.26	1.20 hr.	.03	.04	.92
10' cultipacker	.27 hr.	2.87	.77	32.34	.27 hr.	5.23	1.41	32.43
2-row lister planter	1.06 hr.	.70	.74	31.08	1.06 hr.	.87	.92	21.16
2-row cultivator	4.32 hr.	.35	1.50	63.00	4.32 hr.	.44	1.89	43.47
5-bale cotton trailer	1.50 hr.	.19	.29	12.18	1.50 hr.	.35	.52	11.96
<b>Equipment (rented):</b>								
4' ditcher	.25 hr.	.50	.12	5.04	.25 hr.	.50	.12	2.76
4' scraper	.25 hr.	.50	.12	5.04	.25 hr.	.50	.12	2.76
Fertilizer attach.	.75 hr.	.50	.38	15.96	.75 hr.	.50	.38	8.74
2-row stalk cutter	.50 hr.	1.00	.50	21.00	.50 hr.	1.00	.50	11.50
<b>Materials:</b>								
Irrigation water	31.2 ac."	.30	9.45	396.90	36 ac."	.28	10.26	235.98
Seed (machine delint)	35 lb.	.08	2.80	117.60	35 lb.	.08	2.80	64.40
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	325 lb.	.03	10.40	436.80	333 lb.	.03	10.66	245.18
<b>Labor:</b>								
Drivers	14.91 hr.	1.00	14.91	626.22	15.51 hr.	1.00	15.51	356.73
Irrigators	14.04 hr.	.90	12.64	530.88	16.20 hr.	.90	14.58	335.34
General	.56 hr.	.90	.50	21.00	.56 hr.	.90	.50	11.50
Soc. Sec. & Comp. Insur. b/			1.63	68.33			1.77	40.81

(Continued on next page.)





Table 9 continued.

Item	1953				1955			
	Aores: 42 -- Yield: 1.25 bales				Aores: 23 -- Yield: 1.50 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>Contracts:</b>								
Hand thin			5.00	210.00			5.00	115.00
Hand weed			5.00	210.00			5.00	115.00
Dust 2X (5% DDT 50% S)	60 lb.	.14	8.10	340.20	60 lb.	.14	8.10	186.30
Pick - hand	1.25 bale	42.00	52.50	2,205.00	1.50 bale	42.00	63.00	1,449.00
Gin	1.25 bale	14.70	18.38	771.96	1.50 bale	14.70	22.05	507.15
Insur. & storage	1.25 bale	1.19	1.49	62.58	1.50 bale	1.19	1.79	41.17
Interest on oper- ating capital <sup>o/</sup>			2.09	87.89			2.32	53.28
Total variable			163.98	6,887.14			187.12	4,303.78
Total cost			206.53	8,605.63			242.04	5,550.85

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>o/</sup> Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5.5 percent.

Source: Calculated from survey data.

Variable costs		Fixed costs		Total costs		Average cost per unit	
Cost	Units	Cost	Units	Cost	Units	Cost	Units
1	2	3	4	5	6	7	8
Variable costs		Fixed costs		Total costs		Average cost per unit	
1.00	100	10.00	100	11.00	100	11.00	100
1.00	200	10.00	200	11.00	200	11.00	200
1.00	300	10.00	300	11.00	300	11.00	300
1.00	400	10.00	400	11.00	400	11.00	400
1.00	500	10.00	500	11.00	500	11.00	500
1.00	600	10.00	600	11.00	600	11.00	600
1.00	700	10.00	700	11.00	700	11.00	700
1.00	800	10.00	800	11.00	800	11.00	800
1.00	900	10.00	900	11.00	900	11.00	900
1.00	1000	10.00	1000	11.00	1000	11.00	1000
1.00	1100	10.00	1100	11.00	1100	11.00	1100
1.00	1200	10.00	1200	11.00	1200	11.00	1200
1.00	1300	10.00	1300	11.00	1300	11.00	1300
1.00	1400	10.00	1400	11.00	1400	11.00	1400
1.00	1500	10.00	1500	11.00	1500	11.00	1500
1.00	1600	10.00	1600	11.00	1600	11.00	1600
1.00	1700	10.00	1700	11.00	1700	11.00	1700
1.00	1800	10.00	1800	11.00	1800	11.00	1800
1.00	1900	10.00	1900	11.00	1900	11.00	1900
1.00	2000	10.00	2000	11.00	2000	11.00	2000
1.00	2100	10.00	2100	11.00	2100	11.00	2100
1.00	2200	10.00	2200	11.00	2200	11.00	2200
1.00	2300	10.00	2300	11.00	2300	11.00	2300
1.00	2400	10.00	2400	11.00	2400	11.00	2400
1.00	2500	10.00	2500	11.00	2500	11.00	2500
1.00	2600	10.00	2600	11.00	2600	11.00	2600
1.00	2700	10.00	2700	11.00	2700	11.00	2700
1.00	2800	10.00	2800	11.00	2800	11.00	2800
1.00	2900	10.00	2900	11.00	2900	11.00	2900
1.00	3000	10.00	3000	11.00	3000	11.00	3000
1.00	3100	10.00	3100	11.00	3100	11.00	3100
1.00	3200	10.00	3200	11.00	3200	11.00	3200
1.00	3300	10.00	3300	11.00	3300	11.00	3300
1.00	3400	10.00	3400	11.00	3400	11.00	3400
1.00	3500	10.00	3500	11.00	3500	11.00	3500
1.00	3600	10.00	3600	11.00	3600	11.00	3600
1.00	3700	10.00	3700	11.00	3700	11.00	3700
1.00	3800	10.00	3800	11.00	3800	11.00	3800
1.00	3900	10.00	3900	11.00	3900	11.00	3900
1.00	4000	10.00	4000	11.00	4000	11.00	4000
1.00	4100	10.00	4100	11.00	4100	11.00	4100
1.00	4200	10.00	4200	11.00	4200	11.00	4200
1.00	4300	10.00	4300	11.00	4300	11.00	4300
1.00	4400	10.00	4400	11.00	4400	11.00	4400
1.00	4500	10.00	4500	11.00	4500	11.00	4500
1.00	4600	10.00	4600	11.00	4600	11.00	4600
1.00	4700	10.00	4700	11.00	4700	11.00	4700
1.00	4800	10.00	4800	11.00	4800	11.00	4800
1.00	4900	10.00	4900	11.00	4900	11.00	4900
1.00	5000	10.00	5000	11.00	5000	11.00	5000
1.00	5100	10.00	5100	11.00	5100	11.00	5100
1.00	5200	10.00	5200	11.00	5200	11.00	5200
1.00	5300	10.00	5300	11.00	5300	11.00	5300
1.00	5400	10.00	5400	11.00	5400	11.00	5400
1.00	5500	10.00	5500	11.00	5500	11.00	5500
1.00	5600	10.00	5600	11.00	5600	11.00	5600
1.00	5700	10.00	5700	11.00	5700	11.00	5700
1.00	5800	10.00	5800	11.00	5800	11.00	5800
1.00	5900	10.00	5900	11.00	5900	11.00	5900
1.00	6000	10.00	6000	11.00	6000	11.00	6000
1.00	6100	10.00	6100	11.00	6100	11.00	6100
1.00	6200	10.00	6200	11.00	6200	11.00	6200
1.00	6300	10.00	6300	11.00	6300	11.00	6300
1.00	6400	10.00	6400	11.00	6400	11.00	6400
1.00	6500	10.00	6500	11.00	6500	11.00	6500
1.00	6600	10.00	6600	11.00	6600	11.00	6600
1.00	6700	10.00	6700	11.00	6700	11.00	6700
1.00	6800	10.00	6800	11.00	6800	11.00	6800
1.00	6900	10.00	6900	11.00	6900	11.00	6900
1.00	7000	10.00	7000	11.00	7000	11.00	7000
1.00	7100	10.00	7100	11.00	7100	11.00	7100
1.00	7200	10.00	7200	11.00	7200	11.00	7200
1.00	7300	10.00	7300	11.00	7300	11.00	7300
1.00	7400	10.00	7400	11.00	7400	11.00	7400
1.00	7500	10.00	7500	11.00	7500	11.00	7500
1.00	7600	10.00	7600	11.00	7600	11.00	7600
1.00	7700	10.00	7700	11.00	7700	11.00	7700
1.00	7800	10.00	7800	11.00	7800	11.00	7800
1.00	7900	10.00	7900	11.00	7900	11.00	7900
1.00	8000	10.00	8000	11.00	8000	11.00	8000
1.00	8100	10.00	8100	11.00	8100	11.00	8100
1.00	8200	10.00	8200	11.00	8200	11.00	8200
1.00	8300	10.00	8300	11.00	8300	11.00	8300
1.00	8400	10.00	8400	11.00	8400	11.00	8400
1.00	8500	10.00	8500	11.00	8500	11.00	8500
1.00	8600	10.00	8600	11.00	8600	11.00	8600
1.00	8700	10.00	8700	11.00	8700	11.00	8700
1.00	8800	10.00	8800	11.00	8800	11.00	8800
1.00	8900	10.00	8900	11.00	8900	11.00	8900
1.00	9000	10.00	9000	11.00	9000	11.00	9000
1.00	9100	10.00	9100	11.00	9100	11.00	9100
1.00	9200	10.00	9200	11.00	9200	11.00	9200
1.00	9300	10.00	9300	11.00	9300	11.00	9300
1.00	9400	10.00	9400	11.00	9400	11.00	9400
1.00	9500	10.00	9500	11.00	9500	11.00	9500
1.00	9600	10.00	9600	11.00	9600	11.00	9600
1.00	9700	10.00	9700	11.00	9700	11.00	9700
1.00	9800	10.00	9800	11.00	9800	11.00	9800
1.00	9900	10.00	9900	11.00	9900	11.00	9900
1.00	10000	10.00	10000	11.00	10000	11.00	10000

- a/ Total of variable costs (less operator labor, training, and phoning) ÷ 2, x 5.5 percent.  
 b/ 5.5 percent x total labor cost.  
 c/ Formula.

TABLE 10

Inputs and Costs for Producing Alfalfa  
80-acre Farm

Item	1953				1955			
	Acres: 25 — Yield: 5.25 tons				Acres: 35 — Yield: 5.5 tons			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.28	182.00		6.50	7.13	249.60
Office		2.03	2.10	52.50		2.03	2.06	72.00
Improvements		1.82	1.88	47.03		1.82	1.79	64.50
Power			10.14	253.50			7.77	271.95
Equipment			4.40	110.00			3.15	110.25
Irrigation water			9.99	249.75			8.88	310.80
1/4 cost to establish stand			12.10	302.58			11.52	403.23
Total fixed			47.89	1,197.36			42.30	1,482.33
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1 - B	3.00 hr.	1.11	3.32	83.00	3.00 hr.	.77	2.31	80.85
Pickup truck	65.80 mi.	.04	2.50	62.50	78.13 mi.	.04	2.97	103.95
<b>Equipment:</b>								
7' power mower	1.55 hr.	.90	1.40	35.00	1.55 hr.	.64	1.00	35.00
8' side delivery rake	1.45 hr.	1.44	2.08	52.00	1.45 hr.	1.02	1.48	51.80
<b>Materials:</b>								
Irrigation water	44.4 ac." <sup>b/</sup>	.30	13.45	336.25	44.4 ac." <sup>b/</sup>	.28	12.65	442.75
<b>Labor:</b>								
Driver	4.64 hr.	1.00	4.64	116.00	4.95 hr.	1.00	4.95	173.25
Irrigators	19.98 hr.	.90	17.98	449.50	19.98 hr.	.90	17.98	629.30
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.31	32.80			1.33	46.55
<b>Contracts:</b>								
Bale	5.25 ton	3.50	18.38	459.50	5.50 ton	3.50	19.25	673.75
Roadside <sup>c/</sup>	5.25 ton	1.75	9.19	229.75	5.50 ton	1.75	9.63	337.05
Total variable			74.25	1,856.30			73.55	2,574.25
Total cost			122.14	3,053.66			115.85	4,056.58

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor cost.

<sup>c/</sup> The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.



## TABLE 10

Expenses and Costs for Producing Alfalfa  
1940-1941

Item	1940				1941			
	1	2	3	4	5	6	7	8
Seed								
Planting								
Harvesting								
Transportation								
Storage								
Marketing								
Other								
Total								
Cost per ton								
Revenue								
Profit								
Loss								
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TABLE 11

Inputs and Costs for Establishing an Alfalfa Stand  
80-acre Farm

Item	1953				1955			
	Acres: 25				Acres: 35			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>Power:</b>								
Tractor W-1 - B	1.64 hr.	3.21	5.27	131.75	1.64 hr.	1.85	3.03	106.05
<b>Equipment:</b>								
5'3" offset disk	1.20 hr.	1.38	1.66	41.50	1.20 hr.	1.56	1.88	65.80
8' spiketooth harrow	.64 hr.	.16	.10	2.50	.64 hr.	.19	.12	4.20
12' spiketooth harrow	.22 hr.	.24	.05	1.25	.22 hr.	.28	.06	2.10
Broadcastster (rented)	.22 hr.	.25	.06	1.50	.22 hr.	.25	.06	2.10
<b>Materials:</b>								
Irrigation water	8 ac."	.53	4.22	105.50	8 ac."	.48	3.88	135.80
Seed	25 lb..	.34	8.50	212.50	25 lb.	.34	8.50	297.50
<b>Labor:</b>								
Drivers	1.64 hr.	1.00	1.64	41.00	1.64 hr.	1.00	1.64	57.40
Irrigators	3.60 hr.	.90	3.24	81.00	3.60 hr.	.90	3.24	113.40
Soc. Sec. & Comp. Insur. b/			.28	7.08			.28	9.91
<b>Contracts:</b>								
Disk 2X			3.00	75.00			3.00	105.00
Chisel 2X			5.50	137.50			5.50	192.50
Landplane 3X			12.00	300.00			12.00	420.00
Make borders			.75	18.75			.75	26.25
Dust (2% Parathion)	12.5 lb.		2.14	53.50	12.5 lb.		2.14	74.90
Total cost			48.41	1,210.33			46.08	1,612.91
Amount charged off annually			12.10	302.58			11.52	403.23

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

STATE OF NEW YORK  
IN SENATE  
January 11, 1911.  
REPORT  
OF THE  
COMMISSIONERS OF THE LAND OFFICE.  
ALBANY:  
J. B. LIPPINCOTT & COMPANY, PRINTERS.  
1911.

7.0 percent x total labor cost. M



TABLE 12

Inputs and Costs for Producing Field Corn  
80-acre Farm

Item	1953				1955			
	Acres: 5 -- Yield: 30 cwt.				Acres: 15 -- Yield: 35 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	7.28	36.40		6.50	6.93	104.00
Office		2.03	2.10	10.50		2.03	2.00	30.00
Improvements		1.82	1.88	9.41		1.82	1.79	26.88
Power			22.81	114.05			14.25	213.75
Equipment			5.26	26.30			6.44	96.60
Irrigation water			8.10	40.50			7.20	108.00
Total fixed			47.43	237.16			38.61	579.23
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1 - B	9.01 hr.	1.11	9.96	49.80	9.01 hr.	.77	6.94	104.10
Pickup truck	65.8 mi.	.04	2.50	12.50	78.1 mi.	.04	2.97	44.55
<b>Equipment (owned):</b>								
Plow, 2 w/2-16"	1.28 hr.	1.37	1.75	8.75	1.28 hr.	1.70	2.17	32.55
5'3" offset disk	1.12 hr.	.75	.84	4.20	1.12 hr.	.85	.95	14.25
6' tandem disk	1.20 hr.	1.06	1.28	6.40	1.20 hr.	1.32	1.58	23.70
8' spiketooth harrow	1.20 hr.	.03	.03	.15	1.20 hr.	.03	.04	.60
2-row lister planter	1.06 hr.	.70	.74	3.70	1.06 hr.	.87	.92	13.80
2-row cultivator	4.05 hr.	.35	1.40	7.00	4.05 hr.	.44	1.77	26.55
<b>Equipment (rented):</b>								
4' ditcher	.15 hr.	.50	.08	.40	.15 hr.	.50	.08	1.20
4' scraper	.15 hr.	.50	.08	.40	.15 hr.	.50	.08	1.20
Fertilizer attach.	.90 hr.	.50	.45	2.25	.90 hr.	.50	.45	6.75
<b>Materials:</b>								
Irrigation water	36 ac."	.30	10.91	54.55	36 ac."	.28	10.26	153.90
Seed	10 lb.	.26	2.60	13.00	10 lb.	.26	2.60	39.00
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	475 lb.	.03	15.20	76.00	475 lb.	.03	15.20	228.00
<b>Labor:</b>								
Drivers	10.65 hr.	1.00	10.65	53.25	10.96 hr.	1.00	10.96	164.40
Irrigators	16.20 hr.	.90	14.58	72.90	16.20 hr.	.90	14.58	218.70
General	.56 hr.	.90	.50	2.50	.56 hr.	.90	.50	7.50
Soc. Sec. & Comp. Insur. b/			1.49	7.46			1.51	22.65
<b>Contracts:</b>								
Shell	30 cwt.	.12	3.75	18.75	35 cwt.	.12	4.38	65.70
Pick			10.00	50.00			10.00	150.00
Haul	30 cwt.	.10	3.00	15.00	35 cwt.	.10	3.50	52.50
Interest on opera- ting capital o/			2.23	11.16			2.21	33.20
Total variable			94.02	470.12			93.65	1,404.80
Total cost			141.45	707.28			132.26	1,984.03

(Continued on next page.)



## Table 12 continued.

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5.5 percent.

Source: Calculated from survey data.



✓ Reported

✓ 5.6 percent of total fiber costs

✓ 5.6 percent of variable costs (total variable fiber) = 1.2% of total costs

✓ 5.6 percent of total fiber costs

TABLE 13

Physical Resources and Investments for Typical 160-acre Farms  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
	1	2	3	4	5	6
dollars						
<b>Land:</b>						
Total	160 acres					
Total cultivated	152 acres					
<b>Improvements:</b>						
Tractor shed		1		700.00		350.00
Barn & storage		1		2,000.00		1,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Subtotal				2,835.00		1,417.50
<b>Irrigation system:</b>						
Pumping plant	20 h.p.; 800 g.p.m.	2	2,700.00	5,400.00	1,383.75	2,767.50
Well, casing	14" diameter; 90' lift	2 x 175'	5.00	1,750.00	2.50	875.00
Pipe	14"	5,280'	.90	4,752.00	.45	2,376.00
Stands	7' x 36"	4	63.00	252.00	31.50	126.00
Vents	7' x 8"	8	4.90	39.20	2.45	19.60
Alfalfa valves	12"	100	18.56	1,856.00	9.28	928.00
Siphons	3/4" - 2"	250	1.50	375.00	.75	187.50
Subtotal				14,424.20		7,279.60
<b>Power:</b>						
Wheel tractor	W-1	1		2,600.00		1,820.00
Wheel tractor	W-2	1		3,000.00		2,100.00
Pickup truck	1/2 ton	1		2,000.00		1,200.00
				7,600.00		5,120.00
<b>Equipment:</b>						
Plow, 2 way	2-16"	1		550.00		275.00
Chisel b/	8'	1		525.00		262.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	6'	1		400.00		200.00
Spiketooth harrow	4' section	4	30.00	120.00	15.00	60.00
Cultipacker	12'	1		380.00		190.00
Lister planter	4 row	1		550.00		275.00
Cultivator	4 row	1		1,000.00		500.00
Fertilizer attach.	2 row	1		100.00		50.00
Cotton picker	1 row	1		8,700.00		5,220.00
Cotton trailer	6 bale	3	450.00	1,350.00	247.50	742.50
Stalk outter	2 row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Subtotal				15,520.00		8,697.50
Total				40,379.20		22,514.60

a/ Average investment for all items except land =  $\frac{\text{New cost} - \text{Salvage value}}{2}$

No salvage values, except as follows: W-1 tractor: \$1,040      1-row cotton picker: \$1,740  
W-2 tractor: \$1,200      6-bale cotton  
Pickup truck: \$ 400      trailer: \$ 135 ea.

b/ Standby equipment owned but not used in 1953 or 1955.

Source: Calculated from survey data.

Physical resources and investments for typical 10-acre farms

Item	Size or capacity	Amount	How owned		Average investment
			1	2	3
Total cultivated	160 acres				
Total uncultivated	125 acres				
Buildings:					
Tractor shed	1	1			700.00
Grain & storage	1	1			5,000.00
Fuel storage - gas	1	1			100.00
Subtotal					5,800.00
Tractor					
Tractor	50 h.p.; 800 lbs. m.	2			5,700.00
Tractor	14" diameter	2 x 125			2.00
Pipe	90' lift	2,580'			4,750.00
Wells	14"				1,750.00
Wells	7" x 36"	4			250.00
Wells	7" x 8"	2			30.00
Wells	12"	100			1,500.00
Wells	36" - 5"	250			1.50
Subtotal					12,530.00
Tractor					
Tractor	W-1	1			5,000.00
Tractor	W-2	1			3,000.00
Tractor	1 1/2 ton	1			5,000.00
Subtotal					13,000.00
Equipment:					
Plow, 2 way	3-10'	1			750.00
Grader	6'	1			200.00
Disc, offset	7 1/2'	1			300.00
Disc, tandem	6'	1			400.00
Spoke-tooth harrow	4' section	4			150.00
Calibrator	12'	1			200.00
Calibrator	4' row	1			1,000.00
Calibrator	5' row	1			100.00
Cotton picker	1' row	1			6,000.00
Cotton harrow	6' row	3			1,000.00
Stalk cutter	5' row	1			350.00
Power mower	7'	1			350.00
Subtotal					12,500.00
Total					25,030.00

Source: Investment for all items except land = how owned - 30% value

No salvage values, except as follows: W-1 tractor: \$1,040  
W-2 tractor: \$1,200  
1 1/2 ton truck: \$400  
1-ton cotton picker: \$1,200  
6-disc cotton

Steady equipment owned but not used in 1953 or 1954



TABLE 14  
Calendar of Operations and Physical Inputs Per Acre for Producing Cotton  
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements			
		men	power	equipment		man- hours	tractor hours	material	
								1953	1955
	1	2	3	4	5	6	7	8	9
4/1-4/15	Cut stalks	1	W-1	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72		
	Plow	1	W-2	2 way/2-16"	10	.90	.90		
	Furrow out	1	W-1	4-row lister planter	28	.32	.32		
	Make head ditches*	1	W-2	4' ditcher (rented)		.30	.30		
	Preirrigate	1						5.2 ac.in.	5 ac.in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.30	.30		
	Disk 2X	1	W-2	6' tandem disk	18	1.00	1.00		
	Harrow	1	W-1	16' spiketooth harrow	50	.18	.18		
	Plant	2	W-2	4-row lister planter	29	.62	.31	35# seed	
4/25-5/5	Cultipack	1	W-2	12' cultipacker	44	.20	.20		
	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45		
	Hand thin - contract								
5/20-6/10	Cultivate (2)	1	W-2	4-row cultivator	20	.45	.45		
	Cultivate & fertilize (3)	1	W-2	4-row cultivator w/ 2-row fert. attach.	14	.64	.64	300# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 3 ac.in.	333# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 3 ac.in.
	Irrigate (1)								
	Hand weed - contract								
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
7/1-8/15	Irrigate (2)							3 ac.in.	3 ac.in.
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
	Disk 2X - contract							60# 5% DDT	50% S
	Irrigate (3)							3 ac.in.	3 ac.in.
8/1-8/15	Cultivate (6)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate 2X (4-5)							6 ac.in.	6 ac.in.
	Cultivate & lay by (7)	1	W-2	4-row cultivator	26	.35	.35		
8/10-9/15	Irrigate 4X							11 ac.in.	16 ac.in.
	Defoliate - contract							10# of NaClO <sub>3</sub> w/ Borate or Mg.	
	Pick 1st - machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pickup	6-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

\* Occurs 6X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



TABLE 15

Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa  
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
5/1-5/20	Irrigate 1X	1						4.4 ac. in.
	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
6/1-6/20	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
7/1-7/20	Bale - contract							
	Roadside - contract							
	Irrigate 2X	1						7.5 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
8/1-8/20	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
	Irrigate 3X	1						10.5 ac. in.
9/1-9/20	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract							
	Roadside - contract							
9/1-9/20	Irrigate 3X	1						10.5 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale - contract	1						
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

\* No cutting for first year of stand.

Source: Calculated from survey data.





TABLE 16

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa or Irrigated Pasture Stand  
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
2/1-3/15	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72	8 ac. in.
	Chisel 2X - contract							
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							25# seed (alfalfa) 10# seed (permanent pasture)
	Disk	1	W-2	7 1/2' offset disk	25	.36	.36	
	Preirrigate	1						
	Disk with harrow	1	W-2	7 1/2' offset disk w/8' spiketooth	22	.41	.41	
	Seed	1	W-2	Broadcaster (rented)	40	.22	.22	12.5# 2% Parathion
	Harrow	1	W-2	16' spiketooth harrow	50	.18	.18	
	Dust (alfalfa) - contract							

Source: Calculated from survey data.

Description of Property		Date of Acquisition		Date of Disposition		Amount of Proceeds	
1. 1000 shares of ABC Corp. stock	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
2. 1000 shares of XYZ Corp. stock	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
3. 1000 shares of DEF Corp. stock	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
4. 1000 shares of GHI Corp. stock	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000
	1000 shares	1/1/70	1/1/70	1/1/70	1/1/70	1000	1000

1000 shares of ABC Corp. stock, 1000 shares of XYZ Corp. stock, 1000 shares of DEF Corp. stock, 1000 shares of GHI Corp. stock



TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Field Corn  
160-acre Farms

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	W-2	7 1/2' offset disk	25	.72	.72	
	Plow	1	W-2	2 way/2-16"	10	.90	.90	
	Furrow out	1	W-1	4-row lister planter	28	.32	.32	
	Make head ditches*	1	W-2	4' ditcher (rented)		.15	.15	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	W-2	4' scraper (rented)		.15	.15	
	Disk 2X	1	W-2	6' tandem disk	20	.90	.90	
	Harrow	1	W-1	16' spiketooth harrow	50	.18	.18	
3/25-4/10	Plant	2	W-2	4-row lister planter	28	.64	.32	10# seed
4/10-4/25	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
4/25-5/10	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
5/10-5/25	Cultivate & fertilize	1	W-2	4-row cultivator w/ 2-row fert. attach.	14	.64	.64	475# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
5/25-6/10	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/1-6/15	Irrigate (1)	1						5 ac. in.
6/10-6/25	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
6/15-9/1	Irrigate 5X (2-6)	1						25 ac. in.
9/20-10/20	Pick & Haul - contract							
	Shell - contract							

\* Occurs 3X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.

\* 000000 2X - 0000-0000 000 000000-0000 000 0000 000 000000

TABLE 18

Calendar of Operations and Physical Inputs Per Acre for Maintaining Irrigated Pasture  
160-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/31	Fertilize	1	W-1	Fertilizer spreader (rented)	30	.30	.30	200# 16-20
3/1-10/31	Irrigate 15X (about every 2 weeks)	1						60 ac. in.
4/1-4/30	Disk with harrow attached 2X	1	W-2	6' tandem disk w/8' spiketooth	18	1.00	1.00	
5/1-5/31	Mow	1	W-1	7' power mower	29	.31	.31	
8/1-8/31	Mow	1	W-1	7' power mower	29	.31	.31	

Source: Calculated from survey data.



REPORT: ORIENTED TO THE STUDY AREA

10/1-10/31	1000	1	1-1	1. COMET MONITOR	30	10	10	
10/1-10/31	1000	1	1-1	1. COMET MONITOR	30	10	10	
				2. MONITOR MONITOR				
				3. MONITOR MONITOR				
10/1-10/31	1000	1	1-1	1. COMET MONITOR	30	10	10	
10/1-10/31	1000	1	1-1	1. COMET MONITOR	30	10	10	
				2. MONITOR MONITOR				
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				99. MONITOR MONITOR				
				100. MONITOR MONITOR				

ORIENTED TO THE STUDY AREA

TABLE 19

Inputs and Costs for Producing Cotton  
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 75 — Yield: 1.25 bales			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.21	540.80
Office		1.48	1.56	117.00
Improvements		1.50	1.58	118.76
Power			11.40	855.00
Equipment			36.13	2,709.75
Irrigation water			7.86	589.50
Total fixed			65.74	4,930.81
<b>VARIABLE:</b>				
<u>Power:</u>				
W-1 tractor	1.00 hr.	.61	.61	45.75
W-2 tractor	9.45 hr.	.74	6.95	521.25
Pickup truck	90,906 mi.	.04	3.18	238.50
<u>Equipment (owned):</u>				
Plow, 2 w/2-16"	.90 hr.	1.22	1.10	82.50
7 1/2' offset disk	.72 hr.	1.22	.88	66.00
6' tandem disk	1.00 hr.	.80	.80	60.00
16' spiketooth harrow	.18 hr.	.12	.02	1.50
12' cultipacker	.20 hr.	2.53	.51	38.25
4-row lister planter	.63 hr.	1.16	.73	54.75
4-row cultivator	2.94 hr.	.91	2.67	200.25
2-row fertilizer attachment	.64 hr.	.42	.27	20.25
1-row cotton picker	2.78 hr.	6.98	19.40	1,455.00
6-bale cotton trailer	1.50 hr.	.36	.54	40.50
2-row stalk cutter	.50 hr.	.43	.22	16.50
<u>Equipment (rented):</u>				
4' ditcher	.30 hr.	.50	.15	11.25
4' scraper	.30 hr.	.50	.15	11.25
<u>Materials:</u>				
Irrigation water	31.2 ac."	.22	7.02	526.50
Seed	35 lb.	.08	2.80	210.00
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	300 lb.	.03	9.60	720.00
<u>Labor:</u>				
Drivers	14.12 hr.	1.00	14.12	1,059.00
Irrigators	13.16 hr.	.90	11.84	888.00
General	3.09 hr.	.90	2.78	208.50
Soc. Sec. & Comp. Insur. b/			1.67	125.02

(Continued on next page.)

## Inputs and Costs for Production: Cotton

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Table 19 continued.

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 75 — Yield: 1.25 bales			
	Units used per acre <sup>a</sup>	Unit cost <sup>a</sup>	Cost per acre	Total cost
	1	2	3	4
		dollars		
Contracts:				
Hand thin			5.00	375.00
Hand weed			5.00	375.00
Dust 2X (5% DDT - 50% S)	60 lb.	.14	8.10	607.50
Defoliate (NaClO <sub>3</sub> w/Borate or Mg.)	10 lb.		4.25	318.75
Gin	1.25 bale	14.70	18.38	1,378.50
Insur. & storage	1.25 bale	1.19	1.49	111.75
Interest on operating capital c/			2.69	201.56
Total variable			132.92	9,968.58
Total cost			198.66	14,899.39

(Continued on next page.)

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Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 41 — Yield: 1.5 bales				Acres: 41 — Yield: 1.5 bales			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
<b>FIXED:</b>		dollars				dollars		
Real estate taxes		6.50	7.36	301.60		6.50	7.36	301.60
Office		1.48	1.59	65.25		1.48	1.59	65.25
Improvements		1.50	1.62	66.23		1.50	1.62	66.23
Power			15.97	654.77			13.54	555.14
Equipment			64.58	2,647.78			61.13	2,506.33
Irrigation water			7.52	308.32			8.86	363.26
Total fixed			98.64	4,043.95			94.10	3,857.81
<b>VARIABLE:</b>								
<u>Power:</u>								
W-1 tractor	1.00 hr.	.63	.63	25.83	1.00 hr.	.65	.65	26.65
W-2 tractor	9.45 hr.	.80	7.57	310.37	9.45 hr.	.76	7.16	293.56
Pickup truck	109.88 mi.	.04	3.85	157.65	109.88 mi.	.04	3.84	157.44
<u>Equipment (owned):</u>								
Plow, 2 w/2-16"	.90 hr.	2.24	2.01	82.41	.90 hr.	1.13	1.02	41.82
7 1/2' offset disk	.72 hr.	1.64	1.18	48.38	.72 hr.	1.21	.87	35.67
6' tandem disk	1.00 hr.	.74	.74	30.34	1.00 hr.	.78	.78	31.98
16' spiketooth harrow	.18 hr.	.07	.01	.41	.18 hr.	.12	.02	.82
12' cultipacker	.20 hr.	4.63	.93	38.13	.20 hr.	4.63	.93	38.13
4-row lister planter	.63 hr.	2.13	1.34	54.94	.63 hr.	1.07	.67	27.47
4-row cultivator	2.94 hr.	1.66	4.88	200.08	2.94 hr.	.95	2.79	114.39
2-row fertilizer attachment	.64 hr.	.76	.49	20.09	.64 hr.	.39	.25	10.25
1-row cotton picker	2.78 hr.	12.68	35.24	1,444.84	2.78 hr.	12.76	35.49	1,455.09
6-bale cotton trailer	1.50 hr.	.66	.99	40.59	1.50 hr.	.66	.99	40.59
2-row stalk cutter	.50 hr.	.79	.40	16.40	.50 hr.	.79	.40	16.40
<u>Equipment (rented):</u>								
4' ditcher	.30 hr.	.50	.15	6.15	.30 hr.	.50	.15	6.15
4' scraper	.30 hr.	.50	.15	6.15	.30 hr.	.50	.15	6.15
<u>Materials:</u>								
Irrigation water	36 ac."	.20	7.38	302.58	36 ac."	.22	8.03	329.23
Seed	35 lb.	.08	2.80	114.80	35 lb.	.08	2.80	114.80
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	333 lb.	.03	10.66	437.06	333 lb.	.03	10.66	437.06
<u>Labor:</u>								
Drivers	14.57 hr.	1.00	14.57	597.37	14.57 hr.	1.00	14.57	597.37
Irrigators	15.19 hr.	.90	13.67	560.47	15.19 hr.	.90	13.67	560.47
General	3.09 hr.	.90	2.78	113.98	3.09 hr.	.90	2.78	113.98
Soc. Sec. & Comp. Insur. b/			1.80	73.77			1.80	73.77

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Table 19 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 41 — Yield: 1.5 bales				Acres: 41 — Yield: 1.5 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
Contracts:								
Hand thin			5.00	205.00			5.00	205.00
Hand weed			5.00	205.00			5.00	205.00
Dust 2X (5% DDT 50% S)	60 lb.	.14	8.10	332.10	60 lb.	.14	8.10	332.10
Defoliate (NaClO <sub>3</sub> w/Borate or Mg.)	10 lb.		4.25	174.25	10 lb.		4.25	174.25
Gin	1.5 bale	14.70	22.05	904.05	1.5 bale	14.70	22.05	904.05
Insur. & storage	1.5 bale	1.19	1.78	72.98	1.5 bale	1.19	1.78	72.98
Interest on opera- ting capital c/			3.40	139.56			3.30	135.33
Total variable			163.80	6,715.93			159.95	6,557.95
Total cost			262.44	10,759.88			254.05	10,415.76

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5 percent.

Source: Calculated from survey data.

2.6.2. *Staphylococcus aureus* (ATCC 12228)



TABLE 20

Inputs and Costs for Producing Alfalfa  
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 70 — Yield: 5.25 tons			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.13	499.20
Office		1.48	1.54	108.00
Improvements		1.50	1.57	109.62
Power			6.28	439.60
Equipment			1.87	130.90
Irrigation water			11.19	783.30
1/4 cost to establish stand			10.82	757.52
Total fixed			40.40	2,828.14
<b>VARIABLE:</b>				
<b>Power:</b>				
W-1 tractor	3.00 hr.	.61	1.83	128.10
Pickup truck	45.46 mi.	.04	1.59	111.30
<b>Equipment:</b>				
7' power mower	1.55 hr.	.32	.50	35.00
8' side delivery rake	1.45 hr.	.51	.74	51.80
<b>Materials:</b>				
Irrigation water	44.4 ac."	.22	9.99	699.30
<b>Labor:</b>				
Drivers	4.14 hr.	1.00	4.14	289.80
Irrigators	18.73 hr.	.90	16.86	1,180.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.22	85.26
<b>Contracts:</b>				
Bale	5.25 ton	3.50	18.38	1,286.60
Roadside <sup>c/</sup>	5.25 ton	1.75	9.19	643.30
Total variable			64.44	4,510.66
Total cost			104.84	7,338.80

(Continued on next page.)

$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

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Table 20 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 60 — Yield: 5.5 tons				Acres: 60 — Yield: 5.5 tons			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.45	447.20		6.50	7.45	447.20
Office		1.48	1.61	96.75		1.48	1.61	96.75
Improvements		1.50	1.64	98.20		1.50	1.64	98.20
Power			7.15	429.00			7.48	448.80
Equipment			2.06	123.60			2.27	136.20
Irrigation water			9.28	556.80			10.92	655.20
1/4 cost to establish stand			11.18	670.45			10.86	651.25
Total fixed			40.37	2,422.00			42.23	2,533.60
<b>VARIABLE:</b>								
<b>Power:</b>								
W-1 tractor	3.00 hr.	.63	1.90	114.00	3.00 hr.	.65	1.95	117.00
Pickup truck	54.95 mi.	.04	1.92	115.20	54.95 mi.	.04	1.92	115.20
<b>Equipment:</b>								
7' power mower	1.55 hr.	.30	.46	27.60	1.55 hr.	.38	.58	34.80
8' side delivery rake	1.45 hr.	.60	.87	52.20	1.45 hr.	.60	.87	52.20
<b>Materials:</b>								
Irrigation water	44.4 ac."	.20	9.10	546.00	44.4 ac."	.22	9.90	594.00
<b>Labor:</b>								
Drivers	4.37 hr.	1.00	4.37	262.20	4.37 hr.	1.00	4.37	262.20
Irrigators	18.73 hr.	.90	16.86	1,011.60	18.73 hr.	.90	16.86	1,011.60
Soc. Sec. & Comp. Insur. b/			1.23	73.88			1.23	73.88
<b>Contracts:</b>								
Bale	5.5 ton	3.50	19.25	1,155.00	5.5 ton	3.50	19.25	1,155.00
Roadside o/	5.5 ton	1.75	9.62	577.20	5.5 ton	1.75	9.62	577.20
Total variable			65.58	3,934.88			66.55	3,993.08
Total cost			105.95	6,356.88			108.78	6,526.68

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.



General Information									
Name		Address		City		State		Zip	
Phone		Business		Home		Mobile		Fax	
Vehicle Information									
Make		Model		Year		Color		VIN	
Engine		Transmission		Drive		Fuel		Mileage	
Insurance Information									
Company		Policy No.		Effective Date		Expiration Date		Amount	
Registration Information									
State		Plate No.		Registration Fee		Sales Tax		Total	
Payment Information									
Method		Frequency		Amount		Due Date		Next Payment	
Remarks									

The undersigned hereby certifies that the above information is true and correct to the best of his knowledge and belief.

TABLE 21

Inputs and Costs for Establishing an Alfalfa Stand  
160-acre Farms

Item	1953			
	160-1 and 160-2 Farms			
	Acres: 70			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
		dollars		
<u>Power:</u>				
W-2 tractor	1.89 hr.	1.38	2.60	182.00
<u>Equipment:</u>				
7 1/2' offset disk	1.49 hr.	2.34	3.49	244.30
8' spiketooth harrow	.41 hr.	.38	.15	10.50
16' spiketooth harrow	.18 hr.	.75	.14	9.80
Broadcaster (rented)	.22 hr.	.25	.06	4.20
<u>Materials:</u>				
Irrigation water	8 ac."	.48	3.82	267.40
Seed	25 lb.	.34	8.50	595.00
<u>Labor:</u>				
Drivers	1.89 hr.	1.00	1.89	132.30
Irrigators	2.25 hr.	.90	2.02	141.40
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.23	15.87
<u>Contracts:</u>				
Landplane 3X			12.00	840.00
Chisel 2X			5.50	385.00
Make borders			.75	52.50
Dust (2% Parathion)	12.5 lb.	.17	2.14	149.80
Total cost			43.29	3,030.07
Amount charged off annually			10.82	757.52

(Continued on next page.)

TABLE 21

Imports and Costs for Dates Landing on Alcala Island  
(Amounts in U.S. dollars)

Description of Goods	1954		1955	1956
	Quantity	Value	Quantity	Value
1. Dates (whole)	10,000	100.00	12,000	120.00
2. Dates (pitted)	8,000	80.00	10,000	100.00
3. Dates (seed)	2,000	20.00	2,000	20.00
4. Dates (other)	1,000	10.00	1,000	10.00
5. Dates (total)	21,000	210.00	25,000	250.00
6. Dates (import duty)				
7. Dates (transportation)				
8. Dates (storage)				
9. Dates (insurance)				
10. Dates (other charges)				
11. Dates (total charges)				
12. Dates (net cost)				
13. Dates (gross cost)				
14. Dates (total cost)				
15. Dates (average cost)				
16. Dates (total value)				
17. Dates (total quantity)				
18. Dates (total weight)				
19. Dates (total area)				
20. Dates (total volume)				
21. Dates (total length)				
22. Dates (total width)				
23. Dates (total height)				
24. Dates (total depth)				
25. Dates (total surface)				
26. Dates (total perimeter)				
27. Dates (total area)				
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40. Dates (total depth)				
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95. Dates (total height)				
96. Dates (total depth)				
97. Dates (total surface)				
98. Dates (total perimeter)				
99. Dates (total area)				
100. Dates (total volume)				

(Amounts in U.S. dollars)



Table 21 continued.

Item	1955							
	160-1 Farm				160-2 Farm			
	Acres: 60				Acres: 60			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
<b>Power:</b>								
W-2 tractor	1.89 hr.	1.82	3.44	206.40	1.89 hr.	1.51	2.85	171.00
<b>Equipment:</b>								
7 1/2' offset disk	1.49 hr.	3.15	4.69	281.40	1.49 hr.	2.32	3.46	207.60
8' spiketooth harrow	.41 hr.	.22	.09	5.40	.41 hr.	.37	.15	9.00
16' spiketooth harrow	.18 hr.	.43	.08	4.80	.18 hr.	.75	.13	7.80
Broadcaster (rented)	.22 hr.	.25	.06	3.60	.22 hr.	.25	.06	3.60
<b>Materials:</b>								
Irrigation water	8 ac."	.41	3.31	198.60	8 ac."	.47	3.74	224.40
Seed	25 lb.	.34	8.50	510.00	25 lb.	.34	8.50	510.00
<b>Labor:</b>								
Drivers	1.89 hr.	1.00	1.89	113.40	1.89 hr.	1.00	1.89	113.40
Irrigators	2.25 hr.	.90	2.02	121.20	2.25 hr.	.90	2.02	121.20
Soc. Sec. & Comp. Insur. b/			.23	13.61			.23	13.61
<b>Contracts:</b>								
Landplane 3X			12.00	720.00			12.00	720.00
Chisel 2X			5.50	330.00			5.50	330.00
Make borders			.75	45.00			.75	45.00
Dust (2% Para- thion)	12.5 lb.	.17	2.14	128.40	12.5 lb.	.17	2.14	128.40
Total cost			44.70	2,681.81			43.42	2,605.01
Amount charged off annually			11.18	670.45			10.86	651.25

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

[illegible]

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...total x trecent 8,3 %

TABLE 22

Inputs and Costs for Producing Field Corn  
160-2 Farm

Item	1955			
	Acres: 40 — Yield: 35 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.28	291.20
Office		1.48	1.58	63.00
Improvements		1.50	1.60	63.95
Power			7.27	290.80
Equipment			5.06	202.40
Irrigation water			8.86	354.40
Total fixed			31.65	1,265.75
<b>VARIABLE:</b>				
<u>Power:</u>				
W-1 tractor	.50 hr.	.65	.32	12.80
W-2 tractor	5.40 hr.	.76	4.09	163.60
Pickup truck	54.95 mi.	.04	1.92	76.80
<u>Equipment (owned):</u>				
Plow, 2 w/2-16"	.90 hr.	1.13	1.02	40.80
7 1/2' offset disk	.72 hr.	1.21	.87	34.80
6' tandem disk	.90 hr.	.78	.70	28.00
16' spiketooth harrow	.18 hr.	.12	.02	.80
4-row lister planter	.64 hr.	1.07	.68	27.20
4-row cultivator	2.26 hr.	.95	2.14	85.60
2-row fertilizer attachment	.64 hr.	.39	.25	10.00
<u>Equipment (rented):</u>				
4' ditcher	.15 hr.	.50	.08	3.20
4' scraper	.15 hr.	.50	.08	3.20
<u>Materials:</u>				
Irrigation water	36 ac."	.22	8.03	321.20
Seed	10 lb.	.26	2.60	104.00
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	475 lb.	.03	15.20	608.00
<u>Labor:</u>				
Drivers	7.27 hr.	1.00	7.27	290.80
Irrigators	15.19 hr.	.90	13.67	546.80
General	.32 hr.	.90	.29	11.60
Soc. Sec. & Comp. Insur. b/			1.23	49.25
<u>Contracts:</u>				
Pick			10.00	400.00
Shell	35 cwt.	.12	4.38	175.20
Haul	35 cwt.	.10	3.50	140.00
Interest on operating capital c/			1.95	78.18
Total variable			80.29	3,211.83
Total cost			111.94	4,477.58

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor) ÷ 2, x 5.5 percent.

Source: Calculated from survey data.



Income and Costs for Production Field Data

Production Field Data			
Field No.	Area (Acres)	Yield (Bbls/Acre)	Costs (\$/Bbl)
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	100
98	100	100	100
99	100	100	100
100	100	100	100

Income and Costs for Production Field Data

Income = (Yield x Price) - Costs

Costs = (Yield x Cost) - Income

Price = \$10.00 per barrel

Cost = \$5.00 per barrel

Yield = 100 barrels per acre

Income = (100 x \$10.00) - (100 x \$5.00) = \$500.00

Costs = (100 x \$5.00) - \$500.00 = \$0.00

TABLE 23

Inputs and Costs for Maintaining Irrigated Pasture  
160-1 Farm

Item	1955			
	Acres: 40 -- Yield: 5,000 lbs. TDN a/			
	Units used per acre <sup>b/</sup>	Unit cost <sup>b/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		6.50	7.28	291.20
Office		1.48	1.58	63.00
Improvements		1.50	1.60	63.95
Power			4.85	194.00
Equipment			1.35	54.00
Irrigation water			12.54	501.60
1/8 cost to establish irrigated pasture			4.88	195.34
Total fixed			34.08	1,363.09
<b>VARIABLE:</b>				
<u>Power:</u>				
W-1 tractor	.92 hr.	.63	.58	23.20
W-2 tractor	1.00 hr.	.80	.80	32.00
Pickup truck	54.95 mi.	.04	1.92	76.80
<u>Equipment:</u>				
6' tandem disk	1.00 hr.	.74	.74	29.60
8' spiketooth harrow	1.00 hr.	.03	.03	1.20
7' power mower	.62 hr.	.30	.18	7.20
Fertilizer spreader (rented)	.30 hr.	1.00	.30	12.00
<u>Materials:</u>				
Irrigation water	60 ac."	.20	12.30	492.00
Fertilizer (16-20)	200 lb.	.04	9.00	360.00
<u>Labor:</u>				
Drivers	3.29 hr.	1.00	3.29	131.60
Irrigators	25.31 hr.	.90	22.78	911.20
Soc. Sec. & Comp. Insur. o/			1.51	60.48
Total variable			53.43	2,137.28
Total cost			87.51	3,500.37

a/ Total digestible nutrient.

b/ Rounded.

o/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

DATE OF DEATH: 08/09/1967



TABLE 24

Inputs and Costs for Establishing Irrigated Pasture  
160-1 Farm

Item	1955			
	Acres: 40			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>Power:</b>				
W-2 tractor	1.89 hr.	1.82	3.44	137.60
<b>Equipment:</b>				
7 1/2' offset disk	1.49 hr.	3.15	4.69	187.60
8' spiketooth harrow	.41 hr.	.22	.09	3.60
16' spiketooth harrow	.18 hr.	.43	.08	3.20
Broadcaster (rented)	.22 hr.	.25	.06	2.40
<b>Materials:</b>				
Irrigation water	8 ac."	.41	3.31	132.40
Seed	10 lb.	.50	5.00	200.00
<b>Labor:</b>				
Drivers	1.89 hr.	1.00	1.89	75.60
Irrigators	2.25 hr.	.90	2.03	81.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.23	9.09
<b>Contracts:</b>				
Landplane 3X			12.00	480.00
Chisel 2X			5.50	220.00
Make borders			.75	30.00
Total cost			39.07	1,562.69
Amount charged off annually			4.88	195.34

<sup>a/</sup> Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

<sup>b/</sup> 5.8 percent x total labor cost.

Source: Calculated from survey data.

# Notes for Establishing Tractor Features

Item	Unit	Cost	Notes
Tractor	1	100.00	
1. 1st. 1st. disk	1	1.00	
2. 1st. 2nd. disk	1	1.00	
3. 1st. 3rd. disk	1	1.00	
4. 1st. 4th. disk	1	1.00	
5. 1st. 5th. disk	1	1.00	
6. 1st. 6th. disk	1	1.00	
7. 1st. 7th. disk	1	1.00	
8. 1st. 8th. disk	1	1.00	
9. 1st. 9th. disk	1	1.00	
10. 1st. 10th. disk	1	1.00	
11. 1st. 11th. disk	1	1.00	
12. 1st. 12th. disk	1	1.00	
13. 1st. 13th. disk	1	1.00	
14. 1st. 14th. disk	1	1.00	
15. 1st. 15th. disk	1	1.00	
16. 1st. 16th. disk	1	1.00	
17. 1st. 17th. disk	1	1.00	
18. 1st. 18th. disk	1	1.00	
19. 1st. 19th. disk	1	1.00	
20. 1st. 20th. disk	1	1.00	
21. 1st. 21st. disk	1	1.00	
22. 1st. 22nd. disk	1	1.00	
23. 1st. 23rd. disk	1	1.00	
24. 1st. 24th. disk	1	1.00	
25. 1st. 25th. disk	1	1.00	
26. 1st. 26th. disk	1	1.00	
27. 1st. 27th. disk	1	1.00	
28. 1st. 28th. disk	1	1.00	
29. 1st. 29th. disk	1	1.00	
30. 1st. 30th. disk	1	1.00	
31. 1st. 31st. disk	1	1.00	
32. 1st. 32nd. disk	1	1.00	
33. 1st. 33rd. disk	1	1.00	
34. 1st. 34th. disk	1	1.00	
35. 1st. 35th. disk	1	1.00	
36. 1st. 36th. disk	1	1.00	
37. 1st. 37th. disk	1	1.00	
38. 1st. 38th. disk	1	1.00	
39. 1st. 39th. disk	1	1.00	
40. 1st. 40th. disk	1	1.00	
41. 1st. 41st. disk	1	1.00	
42. 1st. 42nd. disk	1	1.00	
43. 1st. 43rd. disk	1	1.00	
44. 1st. 44th. disk	1	1.00	
45. 1st. 45th. disk	1	1.00	
46. 1st. 46th. disk	1	1.00	
47. 1st. 47th. disk	1	1.00	
48. 1st. 48th. disk	1	1.00	
49. 1st. 49th. disk	1	1.00	
50. 1st. 50th. disk	1	1.00	
51. 1st. 51st. disk	1	1.00	
52. 1st. 52nd. disk	1	1.00	
53. 1st. 53rd. disk	1	1.00	
54. 1st. 54th. disk	1	1.00	
55. 1st. 55th. disk	1	1.00	
56. 1st. 56th. disk	1	1.00	
57. 1st. 57th. disk	1	1.00	
58. 1st. 58th. disk	1	1.00	
59. 1st. 59th. disk	1	1.00	
60. 1st. 60th. disk	1	1.00	
61. 1st. 61st. disk	1	1.00	
62. 1st. 62nd. disk	1	1.00	
63. 1st. 63rd. disk	1	1.00	
64. 1st. 64th. disk	1	1.00	
65. 1st. 65th. disk	1	1.00	
66. 1st. 66th. disk	1	1.00	
67. 1st. 67th. disk	1	1.00	
68. 1st. 68th. disk	1	1.00	
69. 1st. 69th. disk	1	1.00	
70. 1st. 70th. disk	1	1.00	
71. 1st. 71st. disk	1	1.00	
72. 1st. 72nd. disk	1	1.00	
73. 1st. 73rd. disk	1	1.00	
74. 1st. 74th. disk	1	1.00	
75. 1st. 75th. disk	1	1.00	
76. 1st. 76th. disk	1	1.00	
77. 1st. 77th. disk	1	1.00	
78. 1st. 78th. disk	1	1.00	
79. 1st. 79th. disk	1	1.00	
80. 1st. 80th. disk	1	1.00	
81. 1st. 81st. disk	1	1.00	
82. 1st. 82nd. disk	1	1.00	
83. 1st. 83rd. disk	1	1.00	
84. 1st. 84th. disk	1	1.00	
85. 1st. 85th. disk	1	1.00	
86. 1st. 86th. disk	1	1.00	
87. 1st. 87th. disk	1	1.00	
88. 1st. 88th. disk	1	1.00	
89. 1st. 89th. disk	1	1.00	
90. 1st. 90th. disk	1	1.00	
91. 1st. 91st. disk	1	1.00	
92. 1st. 92nd. disk	1	1.00	
93. 1st. 93rd. disk	1	1.00	
94. 1st. 94th. disk	1	1.00	
95. 1st. 95th. disk	1	1.00	
96. 1st. 96th. disk	1	1.00	
97. 1st. 97th. disk	1	1.00	
98. 1st. 98th. disk	1	1.00	
99. 1st. 99th. disk	1	1.00	
100. 1st. 100th. disk	1	1.00	

a) Round. Unit costs for tractor, equipment, and other items of unit  
 and unit variable costs.

b) 5.0 percent x total labor cost.

c) 5.0 percent x total labor cost.

TABLE 25

Physical Resources and Investments for Typical 320-acre Farm  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
	1	2	3	4	5	6
			dollars			
<b>Land:</b>						
Total	320 acres					
Total cultivated	290 acres					
<b>Improvements:</b>						
Tenant house		1		4,000.00		2,000.00
Tractor shed		1		1,250.00		625.00
Storage shed		2	2,000.00	4,000.00	1,000.00	2,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Fuel storage - diesel	550 gallons	1		135.00		67.50
Subtotal				9,520.00		4,760.00
<b>Irrigation system:</b>						
Pumping plant	20 h.p.; 800 g.p.m.	4	2,700.00	10,800.00	1,383.75	5,535.00
Well, casing	14" diameter; 90' lift	4 x 175'	5.00	3,500.00	2.50	1,750.00
Pipe	16"	7,200'	1.00	7,200.00	.50	3,600.00
Pipe	12"	5,000'	.80	4,000.00	.40	2,000.00
Stands	8' x 36"	4	72.00	288.00	36.00	144.00
Vents	8' x 8"	12	5.60	67.20	2.80	33.60
Alfalfa valves	12"	200	18.56	3,712.00	9.28	1,856.00
Siphons	1" - 3"	400	1.50	600.00	.75	300.00
Subtotal				30,167.20		15,218.60
<b>Power:</b>						
Tracklayer	T-5D	1		7,000.00		3,850.00
Wheel tractor	W-1	1		2,600.00		1,820.00
Wheel tractor	W-2	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup	1/2 ton	1		2,000.00		1,200.00
Truck	1 1/2 ton	1		2,800.00		1,470.00
Subtotal				20,400.00		12,540.00
<b>Equipment:</b>						
Ditcher	5'	1		140.00		70.00
Scraper	5'	1		150.00		75.00
Plow, 2 way	2 - 16"	1		550.00		275.00
Chisel	8'	1		525.00		262.50
Disk, offset	7 1/2'	1		650.00		325.00
Disk, tandem	7'	1		500.00		250.00
Spiketooth harrow	4' section	3	30.00	90.00	15.00	45.00
Cultipacker	10'	1		325.00		162.50
Lister planter	4-row	1		550.00		275.00
Cultivator	4-row	2	1,000.00	2,000.00	500.00	1,000.00
Fertilizer attach.	4-row	1		150.00		75.00

(Continued on next page.)



Physical Resources and Investments for National Development  
1955 Prices

Item	Sector or Investment				Total
	1	2	3	4	
Land					
Forest land					
Water					
Mineral resources					
Transportation					
Roads					
Railroads					
Airports					
Harbors					
Canals					
Dams					
Locks					
Bridges					
Tunnels					
Ports					
Wharves					
Docks					
Piers					
Quays					
Berths					
Moles					
Breakwaters					
Reefs					
Buoys					
Beacons					
Lighthouses					
Fog signals					
Radio aids					
Telegraph lines					
Telephone lines					
Cable lines					
Power lines					
Gas lines					
Water lines					
Sewer lines					
Drainage lines					
Irrigation lines					
Flood control lines					
Windbreak lines					
Shelter lines					
Fence lines					
Boundary lines					
Survey lines					
Communication lines					
Transportation lines					
Energy lines					
Water supply lines					
Sanitation lines					
Health lines					
Education lines					
Social lines					
Cultural lines					
Recreation lines					
Sports lines					
Amusement lines					
Entertainment lines					
Religious lines					
Political lines					
Military lines					
Law lines					
Justice lines					
Government lines					
Public lines					
Private lines					
Foreign lines					
International lines					
Transnational lines					
Multinational lines					
Global lines					
World lines					
Universal lines					
Common lines					
Shared lines					
Joint lines					
Cooperative lines					
Partnership lines					
Alliance lines					
Union lines					
Association lines					
League lines					
Council lines					
Committee lines					
Board lines					
Institute lines					
Foundation lines					
Trust lines					
Fund lines					
Endowment lines					
Stipend lines					
Pension lines					
Annuity lines					
Allowance lines					
Gratuity lines					
Benefit lines					
Perk lines					
Privilege lines					
Concession lines					
Discount lines					
Reduced lines					
Cheap lines					
Low lines					
Inexpensive lines					
Economical lines					
Frugal lines					
Thrifty lines					
Savvy lines					
Prudent lines					
Cautious lines					
Circumspect lines					
Discreet lines					
Judicious lines					
Pragmatic lines					
Realistic lines					
Practical lines					
Useful lines					
Serviceable lines					
Functional lines					
Operational lines					
Productive lines					
Profitable lines					
Lucrative lines					
Gainful lines					
Beneficial lines					
Advantageous lines					
Favorable lines					
Propitious lines					
Auspicious lines					
Fortunate lines					
Lucky lines					
Fortunate lines					
Successful lines					
Triumphant lines					
Victorious lines					
Conquering lines					
Dominant lines					
Superior lines					
Excellent lines					
Outstanding lines					
Remarkable lines					
Extraordinary lines					
Unusual lines					
Uncommon lines					
Rare lines					
Scarce lines					
Unfrequent lines					
Infrequent lines					
Uncommon lines					
Unusual lines					
Extraordinary lines					
Remarkable lines					
Outstanding lines					
Excellent lines					
Superior lines					
Dominant lines					
Conquering lines					
Victorious lines					
Triumphant lines					
Successful lines					
Profitable lines					
Lucrative lines					
Gainful lines					
Beneficial lines					
Advantageous lines					
Favorable lines					
Propitious lines					
Auspicious lines					
Fortunate lines					
Lucky lines					
Fortunate lines					
Successful lines					
Triumphant lines					
Victorious lines					
Conquering lines					
Dominant lines					
Superior lines					
Excellent lines					
Outstanding lines					
Remarkable lines					
Extraordinary lines					
Unusual lines					
Uncommon lines					
Rare lines					
Scarce lines					
Unfrequent lines					
Infrequent lines					
Uncommon lines					
Unusual lines					
Extraordinary lines					
Remarkable lines					
Outstanding lines					
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Superior lines					
Dominant lines					
Conquering lines					
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Outstanding lines					
Excellent lines					
Superior lines					
Dominant lines					
Conquering lines					
Victorious lines					
Triumphant lines					
Successful lines					
Profitable lines					
Lucrative lines					
Gainful lines					
Beneficial lines					
Advantageous lines					
Favorable lines					
Propitious lines					
Auspicious lines					
Fortunate lines					
Lucky lines					
Fortunate lines					
Successful lines					
Triumphant lines					
Victorious lines					
Conquering lines					
Dominant lines					
Superior lines					
Excellent lines					
Outstanding lines					
Remarkable lines					
Extraordinary lines					
Unusual lines					
Uncommon lines					
Rare lines					
Scarce lines					
Unfrequent lines					
Infrequent lines					
Uncommon lines					
Unusual lines					
Extraordinary lines					
Remarkable lines					
Outstanding lines					
Excellent lines					
Superior lines					
Dominant lines					
Conquering lines					
Victorious lines					
Triumphant lines					
Successful lines					
Profitable lines					
Lucrative lines					
Gainful lines					
Beneficial lines					
Advantageous lines					
Favorable lines					
Propitious lines					
Auspicious lines					
Fortunate lines					
Lucky lines					
Fortunate lines					
Successful lines					
Triumphant lines					
Victorious lines					
Conquering lines					
Dominant lines					
Superior lines					
Excellent lines					
Outstanding lines					
Remarkable lines					
Extraordinary lines					
Unusual lines					
Uncommon lines					
Rare lines					
Scarce lines					
Unfrequent lines					
Infrequent lines					
Uncommon lines					
Unusual lines					
Extraordinary lines					
Remarkable lines					
Outstanding lines					
Excellent lines					
Superior lines					
Dominant lines					
Conquering lines					
Victorious lines					
Triumphant lines					
Successful lines					
Profitable lines					
Lucrative lines					
Gainful lines					
Beneficial lines					
Advantageous lines					
Favorable lines					
Propitious lines					
Auspicious lines					
Fortunate lines					
Lucky lines					
Fortunate lines					
Successful lines					
Triumphant lines					
Victorious lines					
Conquering lines					
Dominant lines					
Superior lines					
Excellent lines					
Outstanding lines					
Remarkable lines					
Extraordinary lines					
Unusual lines					
Uncommon lines					
Rare lines					
Scarce lines					

Table 23 continued.

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
	1	2	3	4	5	6
			dollars			
<u>Equipment (con't.):</u>						
Cotton picker	1-row	1		8,700.00		5,220.00
Cotton trailer	5 bale	4	400.00	1,600.00	220.00	880.00
Stalk cutter	2-row	1		325.00		162.50
Power mower	7'	1		350.00		175.00
Side delivery rake	8'	1		520.00		260.00
Hay baler	2 wire	1		3,325.00		1,662.50
Subtotal				20,450.00		11,175.00
Total				80,537.20		43,693.60

a/ New cost + Salvage value  
2

No salvage value except as follows:

T-5D tractor: \$ 700.00  
W-1 tractor: \$1,040.00  
W-2 tractor: \$1,200.00 ea.  
Pickup: \$ 400.00  
Truck: \$ 140.00  
Cotton picker \$1,740.00  
5-bale  
trailers: \$ 40.00 ea.  
Hay baler: \$ 665.00  
Pumping plant: \$ 280.00 ea.

Source: Calculated from survey data.

Item		Quantity		Unit Price		Total Price	
Description		Amount		Amount		Amount	
Hay bale		100.00		1.50		150.00	
Side delivery		100.00		1.50		150.00	
Lower hay		100.00		1.50		150.00	
Stalk water		100.00		1.50		150.00	
Other trailer		100.00		1.50		150.00	
Total		600.00		1.50		900.00	

Now cost a balance value

No value except as follows:  
 Hay bale: 1.50  
 Side delivery: 1.50  
 Lower hay: 1.50  
 Stalk water: 1.50  
 Other trailer: 1.50  
 Total: 9.00  
 Cotton gin: 1.75  
 Hay bale: 1.50  
 Side delivery: 1.50  
 Lower hay: 1.50  
 Stalk water: 1.50  
 Other trailer: 1.50  
 Total: 9.00

Amount: Calculated from a very high



TABLE 26  
Calendar of Operations and Physical Inputs Per Acre for Producing Cotton  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements			
		men	power	equipment		man- hours	tractor hours	material	
								1953	1955
	1	2	3	4	5	6	7	8	9
4/1-4/15	Cut stalks	1	W-1	2-row stalk cutter	18	.50	.50	3.2 ac.in.	4 ac.in.
	Disk 2X	1	T-5D	7 1/2' offset disk	20	.90	.90		
	Plow	1	T-5D	2 way/2-16"	12	.75	.75		
	Furrow out	1	W-1	4-row lister planter	28	.32	.32		
	Make head ditches*	1	T-5D	5' ditcher		.25	.25		
	Preirrigate	1							
	Fill in ditches*	1	T-5D	5' scraper		.25	.25		
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22		
	Plant	2	W-2	4-row lister planter	29	.62	.31		
	4/25-5/10	Cultipack	1	W-1	10' cultipacker	33	.27		
5/20-6/10	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45	400# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 3.5 ac.in.	420# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 4 ac.in.
	Hand thin - contract								
	Cultivate (2)	1	W-2	4-row cultivator	22	.41	.41		
	Cultivate & fertilize (3)	1	W-2	4-row cultivator w/ 4-row fert. attach.	20	.45	.45		
	Irrigate (1)	1							
	Hand weed - contract								
	Cultivate (4)	1	W-2	4-row cultivator	26	.35	.35		
	Irrigate (2)	1							
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35		
	7/1-7/15	Irrigate (3)	1						
7/15-8/1	Dust 2X - contract							3.5 ac.in.	4 ac.in.
	Irrigate (4)	1						3.5 ac.in.	4 ac.in.
	Cultivate & lay by (6)	1	W-2	4-row cultivator	26	.35	.35	14 ac.in.	16 ac.in.
	Irrigate 4X (5-8)	1						10# NaClO <sub>3</sub> w/Borate or Mg.	
	Defoliate - contract								
	Pick 1st - machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pickup	5-bale cotton trailer	6	1.50	1.50		
	Gin - contract								

\* Occurs 5X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



TABLE 27  
Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
		2	3	4		6	7	8
5/1-5/20	Irrigate 1X	1						4.4 ac.in.
	Cut 1st*	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
6/1-6/20	Irrigate 2X	1						7.5 ac. in.
	Cut 2nd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
7/1-7/20	Irrigate 2X	1						7.5 ac. in.
	Cut 3rd	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
8/1-8/20	Irrigate 3X	1						10.5 ac. in.
	Cut 4th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
9/1-9/20	Irrigate 3X	1						10.5 ac. in.
	Cut 5th	1	W-1	7' power mower	29	.31	.31	
	Rake	1	W-1	8' S. D. rake	31	.29	.29	
	Bale	1	W-2	2-wire hay baler	23	.39	.39	
	Roadside - contract							
	Irrigate 1X	1						4.0 ac. in.

\* No cutting for first year of stand.  
Source: Calculated from survey data.



CONTINUING SLOW GROWTH 1950-

0000-0001-9320-1120

DATE OF OBSERVATION BY INSPECTOR: 10/10/1961

12416-51

TABLE 28

Calendar of Operations and Physical Inputs Per Acre for Establishing an Alfalfa or Irrigated Pasture Stand  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
2/1-3/15	Disk 2X	1	T-5D	7 1/2' offset disk	26	.70	.70	8 ac. in.  25# seed (alfalfa) 10# seed (permanent pasture)  12.5# 2% Parathion
	Chisel 2X	1	T-5D	8' chisel	16	1.12	1.12	
	Landplane 2X - contract							
	Make borders - contract							
	Landplane - contract							
	Disk	1	T-5D	7 1/2' offset disk	26	.35	.35	
	Preirrigate	1						
	Disk with harrow	1	T-5D	7 1/2' offset disk w/ 8' spiketooth	26	.35	.35	
	Seed	1	W-1	Broadcaster (rented)	40	.22	.22	
	Harrow							
	Dust (alfalfa) - contract	1	W-2	12' spiketooth	40	.22	.22	

Source: Calculated from survey data.





TABLE 29

Calendar of Operations and Physical Inputs Per Acre for Maintaining Irrigated Pasture  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/31	Fertilize	1	W-1	Fertilizer spreader (rented)	30	.30	.30	200# 16-20
3/1-10/31	Irrigate 15X (about every 2 weeks)	1						60 ac. in.
4/1-4/30	Disk with harrow attached 2X	1	W-2	7' tandem disk w/8' spiketooth	22	.82	.82	
5/1-5/31	Mow	1	W-2	7' power mower	29	.31	.31	
8/1-8/31	Mow	1	W-2	7' power mower	29	.31	.31	

Source: Calculated from survey data.

TABLE 1. SUMMARY OF DATA FOR THE 1960-1961 SEASON

STATION	DATE	TIME	WIND DIRECTION	WIND SPEED (KNOTS)	WAVE HEIGHT (FEET)	WAVE PERIOD (SECONDS)	WAVE LENGTH (FEET)	WAVE ENERGY (KCAL/M <sup>2</sup> )
10-10-61	10/10/61	1000	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1100	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1200	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1300	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1400	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1500	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1600	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1700	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1800	100	10-15	1.0	10	100	100
10-10-61	10/10/61	1900	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2000	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2100	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2200	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2300	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2400	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2500	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2600	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2700	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2800	100	10-15	1.0	10	100	100
10-10-61	10/10/61	2900	100	10-15	1.0	10	100	100
10-10-61	10/10/61	3000	100	10-15	1.0	10	100	100

TABLE 2. SUMMARY OF DATA FOR THE 1962-1963 SEASON

TABLE 30

Calendar of Operations and Physical Inputs Per Acre for Producing Barley  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
12/1-12/10	Disk	1	T-5D	7 1/2' offset disk	26	.35	.35	
12/5-12/15	Disk with harrow attached	1	T-5D	7' tandem disk w/8' spiketooth	22	.41	.41	
12/15-12/31	Seed	2	W-1	Broadcaster (rented)	40	.44	.22	75# seed
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
	Border up	1	W-2	Border disk (rented)	40	.22	.22	
	Irrigate 2X	1						10.8 ac. in.
6/1-7/1	Harvest - contract							
6/1-7/1	Haul - contract							

Source: Calculated from survey data.



UNITED STATES DEPARTMENT OF AGRICULTURE

No.	Description	Unit	Quantity	Unit Price	Total Price	Remarks
10-11-12	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-13	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-14	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-15	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-16	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-17	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-18	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-19	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-20	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-21	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-22	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-23	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-24	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-25	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-26	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-27	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-28	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-29	100 - 10000000	T	1-3	10000000	10000000	10000000
10-11-30	100 - 10000000	T	1-3	10000000	10000000	10000000

UNITED STATES DEPARTMENT OF AGRICULTURE  
OFFICE OF THE SECRETARY

TABLE 31

Calendar of Operations and Physical Inputs Per Acre for Producing Ensilage Corn  
320-acre Farm

Dates	Operations	Crew and equipment			Acres per 9-hour day	Physical requirements		
		men	power	equipment		man- hours	tractor hours	material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-5D	7 1/2' offset disk	26	.70	.70	
	Plow	1	T-5D	2 way 2/16"	12	.75	.75	
	Furrow out	1	W-1	4-row lister planter	28	.32	.32	
	Make head ditches*	1	T-5D	5' ditcher		.20	.20	
	Preirrigate	1						4 ac. in.
	Fill in ditches*	1	T-5D	5' scraper		.20	.20	
	Harrow	1	W-1	12' spiketooth harrow	40	.22	.22	
6/25-7/10	Plant	2	W-2	4-row lister planter	29	.62	.31	12# seed
7/10-7/20	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
7/15-7/25	Irrigate	1						4 ac. in.
7/20-7/30	Cultivate & fertilize	1	W-2	4-row cultivator w/ 4-row fert. attach.	18	.50	.50	500# (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
8/1-8/10	Irrigate	1						4 ac. in.
8/5-8/15	Cultivate	1	W-2	4-row cultivator	24	.38	.38	
8/10-9/10	Irrigate 3X	1						12 ac. in.
9/15-11/10	Chop & haul - contract							

\* Occurs 4X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.

\* (000000 000 - 0000-0000 000 000000-0000 000 0000) 000 0000

250-8010 L J:W



TABLE 32  
Inputs and Costs for Producing Cotton  
320-acre Farm

Item	1953				1955			
	Acres: 130 — Yield: 1.3 bales				Acres: 72 — Yield: 1.6 bales			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		6.50	7.52	977.60		6.50	7.51	540.80
Office		1.03	1.08	141.00		1.03	1.08	78.00
Improvements		2.61	2.74	356.42		2.61	2.74	197.16
Power			15.66	2,035.80			16.62	1,196.64
Equipment			21.72	2,823.60			36.26	2,610.72
Irrigation water			7.99	1,038.70			8.64	622.08
Total fixed			56.71	7,373.12			72.85	5,245.40
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor T-5D	2.15 hr.	1.13	2.42	314.60	2.15 hr.	1.10	2.35	169.20
Tractor W-1	1.31 hr.	.56	.74	96.20	1.31 hr.	.55	.72	51.84
Tractor W-2	5.45 hr.	.80	4.38	569.40	5.45 hr.	.86	4.67	336.24
Pickup	59.00 mi.	.03	1.96	254.80	61.00 mi.	.03	2.01	144.72
Truck	18.00 mi.	.06	1.04	135.20	16.00 mi.	.06	.88	63.36
<b>Equipment:</b>								
5' ditcher	.25 hr.	.14	.03	3.90	.25 hr.	.14	.04	2.88
5' scraper	.25 hr.	.14	.03	3.90	.25 hr.	.15	.04	2.88
Plow, 2w/2-16"	.75 hr.	.85	.63	81.90	.75 hr.	.83	.62	44.64
7 1/2' offset disk	.90 hr.	.60	.54	70.20	.90 hr.	.59	.53	38.16
12' spiketooth harrow	.22 hr.	.03		.83	.22 hr.	.02		.33
10' cultipacker	.27 hr.	.93	.25	32.50	.27 hr.	1.67	.45	32.40
4-row lister planter	.63 hr.	.67	.42	54.60	.63 hr.	.66	.42	30.24
4-row cultivator	2.36 hr.	1.30	3.08	400.40	2.36 hr.	1.60	3.78	272.16
4-row fertilizer attachment	.45 hr.	.51	.23	29.90	.45 hr.	.48	.22	15.84
1-row cotton picker	2.78 hr.	4.03	11.19	1,454.70	2.78 hr.	7.27	20.21	1,455.12
5-bale cotton trailer	1.50 hr.	.25	.37	48.10	1.50 hr.	.44	.67	48.24
2-row stalk cutter	.50 hr.	.25	.12	15.60	.50 hr.	.45	.23	16.56
<b>Materials:</b>								
Irrigation water	31.2 ac."	.24	7.55	981.50	36.0 ac."	.24	8.46	609.12
Seed	35 lb.	.08	2.80	364.00	35 lb.	.08	2.80	201.60
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	400 lb.	.03	12.80	1,664.00	420 lb.	.03	13.44	967.68

(Continued on next page.)

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Table 32 continued.

Item	1953				1955			
	Acres: 130 — Yield: 1.3 bales				Acres: 72 — Yield: 1.6 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>Labor:</b>								
Drivers	12.37 hr.	1.00	12.37	1,608.10	12.29 hr.	1.00	12.29	884.88
Irrigators	10.96 hr.	.90	9.86	1,281.80	12.66 hr.	.90	11.39	820.08
General	3.09 hr.	.90	2.78	361.40	3.09 hr.	.90	2.78	200.16
Soc. Sec. & Comp.								
Insur. b/			1.45	188.58			1.53	110.50
<b>Contracts:</b>								
Hand thin			5.00	650.00			5.00	360.00
Hand weed			5.00	650.00			5.00	360.00
Defoliate (NaClO <sub>3</sub> w/Borate or Mg.)	10 lb.		4.25	552.50	10 lb.		4.25	306.00
Dust 2X (5% DDT - 50% S)	60 lb.	.14	8.10	1,053.00	60 lb.	.14	8.10	583.20
Gin	1.3 bale	14.70	19.11	2,484.30	1.6 bale	14.70	23.52	1,693.44
Insur. & storage	1.3 bale	1.19	1.55	201.50	1.6 bale	1.19	1.90	136.80
Interest on opera- ting capital c/			2.21	287.88			2.56	184.50
Total variable			122.26	15,895.29			140.86	10,142.77
Total cost			178.97	23,268.41			213.71	15,388.17

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable costs (less operator labor, ginning, and picking) ÷ 2, x 5 percent.

Source: Calculated from survey data.



Variable Costs		Fixed Costs		Total Costs		Average Cost		Marginal Cost	
Quantity	Variable Cost	Quantity	Fixed Cost	Quantity	Total Cost	Quantity	Average Cost	Quantity	Marginal Cost
100	100.00	100	100.00	100	200.00	100	2.00	100	2.00
200	200.00	200	100.00	200	300.00	200	1.50	200	2.00
300	300.00	300	100.00	300	400.00	300	1.33	300	2.00
400	400.00	400	100.00	400	500.00	400	1.25	400	2.00
500	500.00	500	100.00	500	600.00	500	1.20	500	2.00
600	600.00	600	100.00	600	700.00	600	1.17	600	2.00
700	700.00	700	100.00	700	800.00	700	1.14	700	2.00
800	800.00	800	100.00	800	900.00	800	1.13	800	2.00
900	900.00	900	100.00	900	1000.00	900	1.11	900	2.00
1000	1000.00	1000	100.00	1000	1100.00	1000	1.10	1000	2.00
1100	1100.00	1100	100.00	1100	1200.00	1100	1.09	1100	2.00
1200	1200.00	1200	100.00	1200	1300.00	1200	1.08	1200	2.00
1300	1300.00	1300	100.00	1300	1400.00	1300	1.08	1300	2.00
1400	1400.00	1400	100.00	1400	1500.00	1400	1.07	1400	2.00
1500	1500.00	1500	100.00	1500	1600.00	1500	1.07	1500	2.00
1600	1600.00	1600	100.00	1600	1700.00	1600	1.06	1600	2.00
1700	1700.00	1700	100.00	1700	1800.00	1700	1.06	1700	2.00
1800	1800.00	1800	100.00	1800	1900.00	1800	1.06	1800	2.00
1900	1900.00	1900	100.00	1900	2000.00	1900	1.05	1900	2.00
2000	2000.00	2000	100.00	2000	2100.00	2000	1.05	2000	2.00
2100	2100.00	2100	100.00	2100	2200.00	2100	1.05	2100	2.00
2200	2200.00	2200	100.00	2200	2300.00	2200	1.05	2200	2.00
2300	2300.00	2300	100.00	2300	2400.00	2300	1.04	2300	2.00
2400	2400.00	2400	100.00	2400	2500.00	2400	1.04	2400	2.00
2500	2500.00	2500	100.00	2500	2600.00	2500	1.04	2500	2.00
2600	2600.00	2600	100.00	2600	2700.00	2600	1.04	2600	2.00
2700	2700.00	2700	100.00	2700	2800.00	2700	1.04	2700	2.00
2800	2800.00	2800	100.00	2800	2900.00	2800	1.04	2800	2.00
2900	2900.00	2900	100.00	2900	3000.00	2900	1.03	2900	2.00
3000	3000.00	3000	100.00	3000	3100.00	3000	1.03	3000	2.00
3100	3100.00	3100	100.00	3100	3200.00	3100	1.03	3100	2.00
3200	3200.00	3200	100.00	3200	3300.00	3200	1.03	3200	2.00
3300	3300.00	3300	100.00	3300	3400.00	3300	1.03	3300	2.00
3400	3400.00	3400	100.00	3400	3500.00	3400	1.03	3400	2.00
3500	3500.00	3500	100.00	3500	3600.00	3500	1.03	3500	2.00
3600	3600.00	3600	100.00	3600	3700.00	3600	1.03	3600	2.00
3700	3700.00	3700	100.00	3700	3800.00	3700	1.03	3700	2.00
3800	3800.00	3800	100.00	3800	3900.00	3800	1.03	3800	2.00
3900	3900.00	3900	100.00	3900	4000.00	3900	1.03	3900	2.00
4000	4000.00	4000	100.00	4000	4100.00	4000	1.03	4000	2.00
4100	4100.00	4100	100.00	4100	4200.00	4100	1.03	4100	2.00
4200	4200.00	4200	100.00	4200	4300.00	4200	1.03	4200	2.00
4300	4300.00	4300	100.00	4300	4400.00	4300	1.03	4300	2.00
4400	4400.00	4400	100.00	4400	4500.00	4400	1.03	4400	2.00
4500	4500.00	4500	100.00	4500	4600.00	4500	1.03	4500	2.00
4600	4600.00	4600	100.00	4600	4700.00	4600	1.03	4600	2.00
4700	4700.00	4700	100.00	4700	4800.00	4700	1.03	4700	2.00
4800	4800.00	4800	100.00	4800	4900.00	4800	1.03	4800	2.00
4900	4900.00	4900	100.00	4900	5000.00	4900	1.03	4900	2.00
5000	5000.00	5000	100.00	5000	5100.00	5000	1.03	5000	2.00
5100	5100.00	5100	100.00	5100	5200.00	5100	1.03	5100	2.00
5200	5200.00	5200	100.00	5200	5300.00	5200	1.03	5200	2.00
5300	5300.00	5300	100.00	5300	5400.00	5300	1.03	5300	2.00
5400	5400.00	5400	100.00	5400	5500.00	5400	1.03	5400	2.00
5500	5500.00	5500	100.00	5500	5600.00	5500	1.03	5500	2.00
5600	5600.00	5600	100.00	5600	5700.00	5600	1.03	5600	2.00
5700	5700.00	5700	100.00	5700	5800.00	5700	1.03	5700	2.00
5800	5800.00	5800	100.00	5800	5900.00	5800	1.03	5800	2.00
5900	5900.00	5900	100.00	5900	6000.00	5900	1.03	5900	2.00
6000	6000.00	6000	100.00	6000	6100.00	6000	1.03	6000	2.00
6100	6100.00	6100	100.00	6100	6200.00	6100	1.03	6100	2.00
6200	6200.00	6200	100.00	6200	6300.00	6200	1.03	6200	2.00
6300	6300.00	6300	100.00	6300	6400.00	6300	1.03	6300	2.00
6400	6400.00	6400	100.00	6400	6500.00	6400	1.03	6400	2.00
6500	6500.00	6500	100.00	6500	6600.00	6500	1.03	6500	2.00
6600	6600.00	6600	100.00	6600	6700.00	6600	1.03	6600	2.00
6700	6700.00	6700	100.00	6700	6800.00	6700	1.03	6700	2.00
6800	6800.00	6800	100.00	6800	6900.00	6800	1.03	6800	2.00
6900	6900.00	6900	100.00	6900	7000.00	6900	1.03	6900	2.00
7000	7000.00	7000	100.00	7000	7100.00	7000	1.03	7000	2.00
7100	7100.00	7100	100.00	7100	7200.00	7100	1.03	7100	2.00
7200	7200.00	7200	100.00	7200	7300.00	7200	1.03	7200	2.00
7300	7300.00	7300	100.00	7300	7400.00	7300	1.03	7300	2.00
7400	7400.00	7400	100.00	7400	7500.00	7400	1.03	7400	2.00
7500	7500.00	7500	100.00	7500	7600.00	7500	1.03	7500	2.00
7600	7600.00	7600	100.00	7600	7700.00	7600	1.03	7600	2.00
7700	7700.00	7700	100.00	7700	7800.00	7700	1.03	7700	2.00
7800	7800.00	7800	100.00	7800	7900.00	7800	1.03	7800	2.00
7900	7900.00	7900	100.00	7900	8000.00	7900	1.03	7900	2.00
8000	8000.00	8000	100.00	8000	8100.00	8000	1.03	8000	2.00
8100	8100.00	8100	100.00	8100	8200.00	8100	1.03	8100	2.00
8200	8200.00	8200	100.00	8200	8300.00	8200	1.03	8200	2.00
8300	8300.00	8300	100.00	8300	8400.00	8300	1.03	8300	2.00
8400	8400.00	8400	100.00	8400	8500.00	8400	1.03	8400	2.00
8500	8500.00	8500	100.00	8500	8600.00	8500	1.03	8500	2.00
8600	8600.00	8600	100.00	8600	8700.00	8600	1.03	8600	2.00
8700	8700.00	8700	100.00	8700	8800.00	8700	1.03	8700	2.00
8800	8800.00	8800	100.00	8800	8900.00	8800	1.03	8800	2.00
8900	8900.00	8900	100.00	8900	9000.00	8900	1.03	8900	2.00
9000	9000.00	9000	100.00	9000	9100.00	9000	1.03	9000	2.00
9100	9100.00	9100	100.00	9100	9200.00	9100	1.03	9100	2.00
9200	9200.00	9200	100.00	9200	9300.00	9200	1.03	9200	2.00
9300	9300.00	9300	100.00	9300	9400.00	9300	1.03	9300	2.00
9400	9400.00	9400	100.00	9400	9500.00	9400	1.03	9400	2.00
9500	9500.00	9500	100.00	9500	9600.00	9500	1.03	9500	2.00
9600	9600.00	9600	100.00	9600	9700.00	9600	1.03	9600	2.00
9700	9700.00	9700	100.00	9700	9800.00	9700	1.03	9700	2.00
9800	9800.00	9800	100.00	9800	9900.00	9800	1.03	9800	2.00
9900	9900.00	9900	100.00	9900	10000.00	9900	1.03	9900	2.00
10000	10000.00	10000	100.00	10000	10100.00	10000	1.03	10000	2.00

Total of variable costs (less operator labor, shipping, and packing) + 5% x 2 = 10%  
 5% x 2 = 10%  
 Total of variable costs (less operator labor, shipping, and packing) + 5% x 2 = 10%

TABLE 33

Inputs and Costs for Producing Alfalfa  
320-acre Farm

Item	1953				1955			
	Acres: 110 — Yield: 5.25 ton				Acres: 110 — Yield: 5.50 ton			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acres	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	7.56	832.00		6.50	7.37	811.20
Office		1.03	1.09	120.00		1.03	1.06	117.00
Improvements		2.61	2.76	303.33		2.61	2.69	295.75
Power			6.87	755.70			7.28	800.80
Equipment			6.58	723.80			6.57	722.70
Irrigation water			11.37	1,250.70			10.66	1,172.60
1/4 cost to establish stand			12.26	1,348.28			12.10	1,330.41
Total fixed			48.49	5,333.81			47.73	5,250.46
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1	3.00 hr.	.56	1.69	185.90	3.00 hr.	.55	1.66	182.60
Tractor W-2	1.95 hr.	.80	1.57	172.70	1.95 hr.	.86	1.67	183.70
Pickup	30.00 mi.	.03	.98	107.80	30.00 mi.	.03	1.00	110.00
Truck	18.00 mi.	.06	1.04	114.40	16.00 mi.	.06	.88	96.80
<b>Equipment:</b>								
7' power mower	1.55 hr.	.18	.28	30.80	1.55 hr.	.18	.28	30.80
8' side delivery rake	1.45 hr.	.33	.47	51.70	1.45 hr.	.33	.47	51.70
2-wire hay baler	1.95 hr.	.78	1.51	166.10	1.95 hr.	.78	1.51	166.10
<b>Materials:</b>								
Irrigation water	44.4 ac."	.24	10.74	1,181.40	44.4 ac."	.24	10.43	1,147.30
Wire	5.25 ton	.50	2.62	288.20	5.50 ton	.50	2.75	302.50
<b>Labor:</b>								
Drivers	6.30 hr.	1.00	6.30	693.00	6.23 hr.	1.00	6.23	685.30
Irrigators	15.61 hr.	.90	14.05	1,545.50	15.61 hr.	.90	14.05	1,545.50
Soc. Sec. & Comp. Insur. b/			1.18	129.83			1.18	129.39
<b>Contracts:</b>								
Roadside c/	5.25 ton	1.75	9.19	1,010.90	5.50 ton	1.75	9.62	1,058.20
Total variable			51.62	5,678.23			51.73	5,689.89
Total cost			100.11	11,012.04			99.46	10,940.35

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ The stacking of baled hay adjacent to a road.

Source: Calculated from survey data.





TABLE 34

Inputs and Costs for Establishing an Alfalfa Stand  
320-acre Farm

Item	1953				1955			
	Acres: 110				Acres: 110			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>Power:</b>								
T-5D tractor	2.52 hr.	3.77	9.49	1,043.90	2.52 hr.	3.61	9.09	999.90
W-1 tractor	.22 hr.	1.36	.30	33.00	.22 hr.	1.38	.30	33.00
W-2 tractor	.22 hr.	1.77	.39	42.90	.22 hr.	2.08	.46	50.60
<b>Equipment:</b>								
8' chisel	1.12 hr.	3.49	3.91	430.10	1.12 hr.	3.43	3.84	422.40
7 1/2' offset disk	1.40 hr.	1.16	1.62	178.20	1.40 hr.	1.12	1.57	172.70
8' spiketooth harrow	.35 hr.	.12	.04	4.40	.35 hr.	.09	.03	3.30
12' spiketooth harrow	.22 hr.	.18	.04	4.40	.22 hr.	.13	.03	3.30
Broadcaster (rented)	.22 hr.	.25	.06	6.60	.22 hr.	.25	.06	6.60
<b>Materials:</b>								
Irrigation water	8 ac."	.50	3.98	437.80	8 ac."	.48	3.80	418.00
Seed	25 lb.	.34	8.50	935.00	25 lb.	.34	8.50	935.00
<b>Labor:</b>								
Drivers	2.96 hr.	1.00	2.96	325.60	2.96 hr.	1.00	2.96	325.60
Irrigators	2.81 hr.	.90	2.53	278.30	2.81 hr.	.90	2.53	278.30
Sec. Sec. & Comp. Insur. b/			.32	35.03			.32	35.03
<b>Contracts:</b>								
Landplane 3X			12.00	1,320.00			12.00	1,320.00
Make borders			.75	82.50			.75	82.50
Dust (2% Parathion)	12.5 lb.		2.14	235.40	12.5 lb.		2.14	235.40
Total cost			49.03	5,393.13			48.36	5,321.63
Amount charged off annually			12.26	1,348.28			12.10	1,330.41

a/ Rounded. Unit costs for power, equipment, and water equal sum of unit fixed and unit variable costs.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.



TABLE 35

Inputs and Costs for Establishing an Irrigated Pasture Stand  
320-acre Farm

Item	1953				1955			
	Acres: 35				Acres: 40			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>Power:</b>								
T-5D tractor	2.52 hr.	3.77	9.49	332.15	2.52 hr.	3.61	9.09	363.60
W-1 tractor	.22 hr.	1.36	.30	10.50	.22 hr.	1.38	.30	12.00
W-2 tractor	.22 hr.	1.77	.39	13.65	.22 hr.	2.08	.46	18.40
<b>Equipment:</b>								
8' chisel	1.12 hr.	3.49	3.91	136.85	1.12 hr.	3.43	3.84	153.60
7 1/2' offset disk	1.40 hr.	1.16	1.62	56.70	1.40 hr.	1.12	1.57	62.80
8' spiketooth harrow	.35 hr.	.12	.04	1.40	.35 hr.	.09	.03	1.20
12' spiketooth harrow	.22 hr.	.18	.04	1.40	.22 hr.	.13	.03	1.20
Broadcaster (rented)	.22 hr.	.25	.06	2.10	.22 hr.	.25	.06	2.40
<b>Materials:</b>								
Irrigation water	8 ac."	.50	3.98	139.30	8 ac."	.48	3.80	152.00
Seed	10 lb.	.50	5.00	175.00	10 lb.	.50	5.00	200.00
<b>Labor:</b>								
Drivers	2.96 hr.	1.00	2.96	103.60	2.96 hr.	1.00	2.96	118.40
Irrigators	2.81 hr.	.90	2.53	88.55	2.81 hr.	.90	2.53	101.20
Soo. Sec. & Comp. Insur. b/			.32	11.14			.32	12.74
<b>Contracts:</b>								
Landplane 3K			12.00	420.00			12.00	480.00
Make borders			.75	26.25			.75	30.00
Total cost			43.39	1,518.59			42.74	1,709.54
Amount charged off annually			5.42	189.82			5.34	213.69

<sup>a</sup>/ Rounded.

<sup>b</sup>/ 5.8 percent x total labor cost.

Source: Calculated from survey data.



• 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 27

TABLE 36

Inputs and Costs for Maintaining Irrigated Pasture  
320-acre Farm

Item	1953				1955			
	Acres: 35 — Yield: 5,000 TDN				Acres: 40 — Yield: 5,000 TDN			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		6.50	7.73	270.40		6.50	7.28	291.20
Office		1.03	1.11	39.00		1.03	1.05	42.00
Improvements		2.61	2.82	98.58		2.61	2.65	106.17
Power			4.23	148.05			4.41	176.40
Equipment			2.20	77.00			1.36	54.40
Irrigation water			15.36	537.60			14.40	576.00
1/8 cost to establish stand			5.42	189.82			5.34	213.69
Total fixed			38.87	1,360.45			36.49	1,459.86
<b>VARIABLE:</b>								
<b>Power:</b>								
Tractor W-1	.30 hr.	.56	.17	5.95	.30 hr.	.55	.17	6.80
Tractor W-2	1.44 hr.	.80	1.16	40.60	1.44 hr.	.86	1.23	49.20
Pickup	30 mi.	.03	.98	34.30	30 mi.	.03	1.00	40.00
Truck	18 mi.	.06	1.04	36.40	16 mi.	.06	.88	35.20
<b>Equipment:</b>								
7' tandem disk	.82 hr.	2.61	2.14	74.90	.82 hr.	1.52	1.25	50.00
8' spiketooth harrow	.82 hr.	.02	.02	.70	.82 hr.	.01	.01	.40
7' power mower	.62 hr.	.18	.11	3.85	.62 hr.	.18	.11	4.40
<b>Equipment (rented):</b>								
Fertilizer spreader	.30 hr.	1.00	.30	10.50	.30 hr.	1.00	.30	12.00
<b>Materials:</b>								
Irrigation water	60 ac."	.24	14.52	508.20	60 ac."	.24	14.10	564.00
Fertilizer (16-20)	200 lb.	.05	9.00	315.00	200 lb.	.05	9.00	360.00
<b>Labor:</b>								
Drivers	3.09 hr.	1.00	3.09	108.15	3.02 hr.	1.00	3.02	120.80
Irrigators	21.10 hr.	.90	18.99	664.65	21.10 hr.	.90	18.99	759.60
Soc. Sec. & Comp.								
Insur. b/			1.28	44.82			1.28	51.06
Total variable			52.80	1,848.02			51.34	2,053.46
Total cost			91.67	3,208.47			87.83	3,513.32

a/ Rounded.

b/ 5.8 percent x total labor cost.

Source: Calculated from survey data.

OFFICE OF THE ATTORNEY GENERAL  
STATE OF NEW YORK

JAN 10 1968



TABLE 37

Inputs and Costs for Producing Barley  
320-acre Farm

Item	1955			
	Acres: 40 — Yield: 22 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		3.25	3.64	145.60
Office		.52	.52	21.00
Improvements		1.30	1.33	53.08
Power			4.95	198.00
Equipment			.81	32.40
Irrigation water			2.59	103.60
Total fixed			13.84	553.68
<b>VARIABLE:</b>				
<u>Power:</u>				
Tractor T-5D	.76 hr.	1.10	.83	33.20
Tractor W-1	.44 hr.	.55	.24	9.60
Tractor W-2	.22 hr.	.86	.19	7.60
Pickup	30 mi.	.03	1.00	40.00
Truck	16 mi.	.06	.88	35.20
<u>Equipment (owned):</u>				
7 1/2' offset disk	.35 hr.	.59	.21	8.40
7' tandem disk	.41 hr.	1.52	.62	24.80
8' spiketooth harrow	.41 hr.	.01		.23
12' spiketooth harrow	.22 hr.	.02		.18
<u>Equipment (rented):</u>				
Border disk	.22 hr.	.50	.11	4.40
Broadcaster	.22 hr.	.25	.06	2.40
<u>Materials:</u>				
Irrigation water	10.8 ac."	.24	2.54	101.60
Seed	75 lb.	.04	3.00	120.00
<u>Labor:</u>				
Drivers	2.70 hr.	1.00	2.70	108.00
Irrigators	3.80 hr.	.90	3.42	136.80
General	.22 hr.	.90	.20	8.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.37	14.66
<u>Contracts:</u>				
Harvest			5.00	200.00
Haul	22 cwt.	.10	2.20	88.00
Interest on operating capital <sup>c/</sup>			.52	20.88
Total variable			24.09	963.95
Total cost			37.93	1,517.63

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor cost.

<sup>c/</sup> Total of variable costs (less operator labor) ÷ 2, x 5 percent.

Source: Calculated from survey data.



TABLE 38

Inputs and Costs for Producing Ensilage Corn  
320-acre Farm

Item	1955			
	Acres: 60 — Yield: 15 ton			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
		dollars		
<b>FIXED:</b>				
Real estate taxes		6.50	4.85	291.20
Office		1.03	.70	42.00
Improvements		2.61	1.77	106.17
Power			9.50	570.00
Equipment			3.44	206.40
Irrigation water			5.76	345.60
Total fixed			26.02	1,561.37
<b>VARIABLE:</b>				
<u>Power:</u>				
Tractor T-5D	1.85 hr.	1.10	2.03	121.80
Tractor W-1	.54 hr.	.55	.30	18.00
Tractor W-2	1.64 hr.	.86	1.40	84.00
Pickup	30 mi.	.03	1.00	60.00
Truck	16 mi.	.06	.88	52.80
<u>Equipment:</u>				
5' ditcher	.20 hr.	.14	.03	1.80
5' scraper	.20 hr.	.15	.03	1.80
Plow, 2w/2-16"	.75 hr.	.83	.62	37.20
7 1/2' offset disk	.70 hr.	.59	.41	24.60
12' spiketooth harrow	.22 hr.	.02		.28
4-row lister planter	.63 hr.	.66	.42	25.20
4-row cultivator	1.33 hr.	1.60	2.13	127.80
4-row fertilizer attachment	.50 hr.	.48	.24	14.40
<u>Materials:</u>				
Irrigation water	24 ac."	.24	5.64	338.40
Seed	12 lb.	.26	3.12	187.20
Fertilizer (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	500 lb.	.03	16.00	960.00
<u>Labor:</u>				
Drivers	5.31 hr.	1.00	5.31	318.60
Irrigators	8.44 hr.	.90	7.60	456.00
Soc. Sec. & Comp. Insur. b/			.75	44.93
<u>Contracts:</u>				
Shop, haul, unload	15 ton	2.25	33.75	2,025.00
Interest on operating capital c/			1.06	63.90
Total variable			82.72	4,963.71
Total cost			108.74	6,525.08

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total variable costs (less operator labor, chopped, hand and unload)  
÷ 2, x 5 percent.

Source: Calculated from survey data.



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TABLE 39

## Farm Product Selling Prices, 1953 and 1955

<u>Product</u>	<u>Unit</u> 1	<u>1955</u> 2	<u>1953</u> 3
Alfalfa hay	ton	\$ 26.00	\$ 21.60
Alfalfa seed	lb.	.24	.28
Barley	cwt.	2.15	2.70
Corn	cwt.	2.70	3.25
Corn ensilage	ton	6.50	6.00
Cotton seed	ton	46.00	53.00
Cotton lint	lb.	.35	.3117
Cotton lint	bale	167.30	148.99
Melons (cantaloupe)	crate	3.00	3.05
Milo	cwt.	2.30	2.75
Potatoes (early)	cwt.	1.85	1.42
Sugar beets	ton	13.50	13.50

James Earl Ray, alias Robert Earl



TABLE 40

## Farm Service Purchasing Prices, 1953-1955

<u>Labor rates</u>		<u>Contract services (continued)</u>		
1	2	3	4	5
Tractor driver	\$1.00 per hr.	Dust (5% DDT - 75% S) - (application)	lb.	\$ .04
Pickup driver	1.00 per hr.	Defoliate (1 qt. sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Truck driver	1.00 per hr.	Dust (2% Parathion)-(appln.)	lb.	.05
Irrigator	.90 per hr.			
General	.90 per hr.			
Compensation Insurance	3.8% of labor cost	<u>Barley</u>		
Social Security	2.0% of labor cost	Harvest	acre	\$ 5.00
		Haul	cwt.	.10
		Storage	cwt.	.144
<u>Equipment rentals</u>		Insurance	\$1.50 per \$100 of value	
4' ditcher	\$ .50 per hr.			
4' scraper	.50 per hr.	<u>Corn</u>		
10' x 60' landplane	2.00 per hr.	Chop, haul, unload	ton	\$ 2.25
Border disk	.50 per hr.	Shell	cwt.	.125
12' springtooth	.50 per hr.	Pick	acre	10.00
2-row planter	.50 per hr.	Haul	cwt.	.10
Fertilizer attachment	.50 per hr.	Dry	cwt.	.175
Fertilizer spreader	1.00 per hr.	Storage	cwt.	.144
Stalk cutter	1.00 per hr.	Insurance	\$1.50 per \$100 of value	
Broadcaster	.25 per hr.	Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.75
<u>Contract Services</u>		<u>Cotton</u>		
<u>Alfalfa</u>		Hand thin	acre	\$ 5.00
Bale	ton	Hand weed	acre	5.00
Roadside	ton	Pick (hand)	bale	42.00
Bees	colony	Pick (machine)	bale	24.50
Weed	acre	Gin	bale	14.70
Harvest	lb.	Insurance & storage	bale	1.19
Certify	acre	Dust (5% DDT - 50% S) - (application)	lb.	.05
Box rental	acre	Defoliate (NaClO <sub>3</sub> w/Borate or Mg)-(application)	acre	2.50
Fertilize(super phosphate)- (appln.)	acre	Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.50
		Gypsum - (appln.)	ton	1.50

(continued on next page.)



Table 40 continued.

Contract services (continued)

	1	2
<u>Melons</u>		
Turn vines	acre	\$10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP- (appln.)	lb.	.05
Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.25

Mile

Harvest	acre	\$ 6.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	\$1.50 per \$100 of value	

Potatoes

Rotobeat	acre	\$ 3.00
Dig	acre	12.00
Pick	cwt.	.16
Haul	cwt.	.075
Shed costs	cwt.	.55
Dust (5% DDT - 50% S)- (application)	lb.	.05

Sugar beets

Thin	acre	12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize (NH <sub>3</sub> ) - (application)	acre	1.25

Contract services (continued)

	3	4	5
<u>Preparing seedbed</u>			
Disk		acre	\$1.50
Chisel		acre	2.75
Landplane		acre	4.00
Make borders		acre	.75





TABLE 41

## Farm Materials Purchasing Prices, 1953-1955

	1	2	3	4	5
<u>Alfalfa</u>			<u>Milo</u>		
Seed (common)	lb.	\$ .32	Seed	lb.	\$ .08
Seed (caliverde)	lb.	.34			
Seed (certified ranger)	lb.	.40	<u>Permanent pasture</u>		
Fertilizer (super phosphate)	lb.	.020	Seed	lb.	.50
Dust (5% DDT - 75% S)	lb.	.0925	Fertilizer (16-20)	lb.	.045
Dust (2% Parathion)	lb.	.121	<u>Potatoes</u>		
Sinox defoliate (1 qt. applied in 10 gal. diesel oil)	qt.	2.90	Seed (cut & dipped)	cwt.	6.30
Baling wire	ton	.50	Fertilizer (17-7-0)	lb.	.0375
			Dust (5% DDT - 50% S)	lb.	.065
<u>Barley</u>			<u>Sugar beets</u>		
Seed	lb.	.04	Seed	lb.	.46
			Fertilizer (NH <sub>3</sub> )	lb.	.095
<u>Corn</u>					
Seed	lb.	.26			
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032			
Fertilizer (NH <sub>3</sub> )	lb.	.105			
<u>Cotton</u>					
Seed (acid delinted)	lb.	.115			
Seed (machine delinted)	lb.	.081			
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032			
Dust (5% DDT - 50% S)	lb.	.085			
Defoliant (NaClO <sub>3</sub> w/ Borate or Mg)	lb.	.175			
Fertilizer (NH <sub>3</sub> )		1/			
Gypsum	ton	2.50			
<u>Melons</u>					
Seed	lb.	1.45			
Dust 5% DDT	lb.	.07			
1% TEPP	lb.	.16			
Fertilizer (NH <sub>3</sub> )	lb.	.085			

1/ \$ .105/lb. for 1-24 tons; .095/lb. for 25-49 tons; .065/lb. for 50 tons and over.

1	2	3	4	5	6
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Source: U.S. Department of Commerce, Bureau of Economic Analysis, "GDP by Sector and Industry," released 1999.





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## **INPUTS AND COSTS FOR PRODUCING FIELD CROPS**

(A Statistical Supplement to Farm Adjustments  
and Earnings Under 1955 Cotton Acreage  
Allotments)

5. San Joaquin Valley Westside Cotton Farms,  
1953-1955

Douglas D. Caton  
Trimble R. Hedges  
W. Neill Schaller

**CALIFORNIA AGRICULTURAL EXPERIMENT STATION  
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS**

In Cooperation with FARM ECONOMICS RESEARCH DIVISION  
AGRICULTURAL RESEARCH SERVICE, U.S.D.A



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This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the San Joaquin Valley Westside resulted from a study by the Giannini Foundation of Agricultural Economics, California Agricultural Experiment Station, and the Farm Economics Research Division, Agricultural Research Service, U. S. Department of Agriculture.

H. Russell Shaw, Assistant Professor of Agricultural Economics, and Assistant Agricultural Economist in the Experiment Station, and on the Giannini Foundation, had major responsibility in collecting the field data, as did Charles C. Carpy, Assistant Specialist in the Experiment Station and on the Giannini Foundation. The latter also shared in the analysis.

John C. Crecink, Agricultural Economist, Warren R. Bailey, Assistant Head, Western Field Research Section, and M. L. Upchurch, Head, Western Field Research Section, all of the Farm Economics Research Division, participated in outlining and developing the project research plans.

We are indebted to farmers, dealers, and representatives of various State and Federal agencies serving agriculture for making information and data available for this investigation. We particularly thank the California Agricultural Stabilization and Conservation Committee for permitting us to use aggregate data from their county files, and the California Agricultural Extension Service for aiding and facilitating our questionnaire survey of farmers holding acreage allotments in 1954.

Finally the credit for the statistical and stenographic work goes to personnel in the Giannini Foundation.



## ACKNOWLEDGMENTS

This investigation of the impact of the cotton acreage allotment program on farm organizations, production, and earnings in the San Joaquin Valley Westside resulted from a study by the Glanville Foundation of Agricultural Research, California, conducted in cooperation with the U.S. Department of Agriculture, Research Division, Agricultural Research Service, U.S. Department of Agriculture.

Assistant Agricultural Economist in the Experiment Station, and on the Glanville Foundation, had major responsibility in collecting the field data, as did Charles C. Garpy, Assistant Specialist in the Experiment Station and on the Glanville Foundation. The latter also shared in the analysis.

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## INPUTS AND COSTS FOR PRODUCING FIELD CROPS

(A Statistical Supplement to Farm Adjustments and Earnings  
Under 1955 Cotton Acreage Allotments)

5. San Joaquin Valley Westside Cotton Farms; 1953-1955<sup>1/</sup>

Douglas D. Caton, Trimble R. Hedges, and W. Neill Schaller<sup>2/</sup>

## FOREWORD

We present in the following pages detailed information assembled and used in analyzing the effects of the cotton acreage allotments on farms and earnings in the San Joaquin Valley Westside. We obtained these data by interviewing farmers and from official sources related to agriculture. The information appears here as a sequence of tables concerned with each of two farm sizes; these include 1,100- and 2,800-acre cotton farms. Such detailed data were essential for our analysis of farm resource use and earnings before and after allotments. Certainly, the same information should prove useful to others who are studying the organization and internal workings of family farms in these two sizes. They also should be helpful to workers and administrators in private and public agencies serving agriculture.

Table 1 presents factual information on soils and Tables 2 and 3 present data obtained from the California Agricultural Stabilization and Conservation Committee files for 1954. The latter two tables indicate farm size, numbers, and cropland use from 1953 to 1955. Succeeding tables deal with the two farm size models that we analyzed. The data for the 1,100-acre unit will serve to indicate the kind and amount of information that this report includes for each farm size. First appears Table 4. Physical Resources and Investments for the Typical 1,100-acre Farm, 1955 Prices. Tables 5-9 then list the calendars of operations and inputs for cotton and other crops. Finally, Tables 10-15 include the physical inputs and costs for producing or maintaining cotton, other crops and fallow on the 1,100-acre farm model.

Subsequent tables repeat this same sequence for the other farm size (Tables 14-20 for all three 2,800-acre models, and tables 21-23, 24-27 and 28-31 for the 2,800-1, 2,800-2, and 2,800-3 models, respectively.

The last three tables in this statistical supplement contain the prices for farm products (Table 32), input services hired or rented (Table 33), and materials (Table 34).

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<sup>1/</sup> This statistical supplement is a companion report to Caton, Douglas D., Trimble R. Hedges, and W. Neill Schaller, Farm Adjustments and Earnings Under 1955 Cotton Acreage Allotments. 4. San Joaquin Valley Westside Cotton Farms, 1953-1955, Giannini Mimeographed Report No. 211, the fifth of a series based on detailed investigations of the changes in farm organization, production, and earnings under the cotton acreage allotments beginning in 1954. This research comes under California Agricultural Experiment Station Project Number 1641, and is partially supported under Line Project PE e3-5(w), Farm Economics Research Division, Western Field Research Section, U. S. Department of Agriculture.

<sup>2/</sup> Douglas D. Caton and W. Neill Schaller are Agricultural Economists, Farm Economics Research Division, Western Field Research Section, Agricultural Research Service, U. S. Department of Agriculture, and Trimble R. Hedges is Professor of Agricultural Economics, Agricultural Economist in the Experiment Station, and Agricultural Economist on the Giannini Foundation, University of California, College of Agriculture, Davis. Authors are listed in alphabetical order, not according to seniority in authorship.





TABLE 1  
Soils by Grades; Western Fresno County

Grade	Series	Acres	Percentages of	
			grade	total
	1	2	3	4
I	Panoche	387,900	92.7	43.0
	Panhill	26,650	6.4	3.0
	Columbia	3,600	.9	.4
	Sorrento	75	.0 <sup>a/</sup>	.0 <sup>a/</sup>
	Subtotal	418,225	100.0	46.4
II	Panoche	108,400	82.0	12.0
	Lost Hills	13,400	10.1	1.5
	Panhill	4,000	3.0	.4
	Temple	3,600	2.7	.4
	Ortigalita	1,300	1.0	.1
	Sorrento	900	.7	.1
	Columbia	600	.5	.1
	Subtotal	132,200	100.0	14.6
III	Oxalis	56,500	51.4	6.3
	Kettleman	15,750	14.3	1.7
	Temple	12,800	11.6	1.4
	Lost Hills	7,600	6.9	.8
	Lethent	5,400	4.9	.6
	Panoche	5,100	4.6	.6
	Merced	2,700	2.5	.3
	Ortigalita	2,500	2.3	.3
	Los Banos	1,600	1.5	.2
	Subtotal	109,950	100.0	12.2
IV	Kettleman	39,900	33.4	4.4
	Merced	34,050	28.5	3.8
	Oxalis	33,500	28.1	3.7
	Other	11,900	10.0	1.3
	Subtotal	119,350	100.0	13.2
V	All series	122,675	100.0	13.6
	Total land	902,400		100.0

<sup>a/</sup> Less than .1 percent.

Source: Calculated from survey data.



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TABLE 2

Farm Size, Total Cotton Acres, and Acres Diverted, 1954 and 1955:  
San Joaquin Valley Westside

Cropland class intervals	Number of farms	Cropland		Total cotton acres				Diverted acres	
		average per farm	total	3-year average 1951-1953	1953	final allotment 1954	acres planted 1955 <sup>a/</sup>	3-year average to 1954	3-year average to 1955
	1	2	3	4	5	6	7	8	9
		acres							
1 - 420	24	196.3	4,711	2,115	2,134	1,620	1,283	- 495	- 832
421 - 660	17	574.4	9,764	4,596	5,095	3,033	2,417	- 1,563	- 2,179
661 - 1,100	21	922.2	19,366	6,790	6,414	4,492	3,593	- 2,298	- 3,197
1,101 - 2,000	105	1,427.1	149,842	67,800	67,089	45,180	36,079	- 22,620	- 31,721
2,001 - 5,000	92	3,192.0	293,663	106,291	110,170	72,812	58,128	- 33,479	- 48,163
5,001 & over	45	17,238.9	775,752	210,309	212,082	140,744	112,364	- 69,565	- 97,945
Total	304	4,122.0	1,253,098	397,901	402,984	267,881	213,864	-130,020	-184,037

<sup>a/</sup> Estimated.

Source: California Agricultural Stabilization and Conservation Committee--includes Western Fresno County and portions of Kern, Kings, and Merced counties.

Form Size, Total Cotton Acres, and Acres Diverted, 1924 and 1925:



TABLE 3

Land Use on Cotton Farms, 1953-1955: San Joaquin Valley Westside

Cropland class intervals	Mid- point	Number of farms	Net crop acres		Fruit		Noncultivated		Total farm	
					number reporting	total	number reporting	total	total	average
			total	average						
	1	2	3	4	5	6	7	8	9	10
1 - 420	210	3	679	226.3			1	40	719	239.7
421 - 660	540	8	5,673	709.1			2	2,203	7,876	984.5
661 - 1,100	880									
1,101 - 2,000	1,550	35	50,028	1,429.4	2	200	15	9,630	59,858	1,710.2
2,001 - 5,000	3,500	38	123,578	3,252.1	1	115	16	11,444	135,137	3,556.2
5,001 & over		18	340,146	18,897.0			7	21,031	361,177	20,065.4
Total		102	520,104	5,099.1	3	315	41	44,348	564,767	5,536.9

Source: Questionnaire returns, 1954.



TABLE 4

Physical Resources and Investments for Typical 1,100-acre Farm,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment a/	
			per unit	total	per unit	total
	1	2	3	4	5	6
			dollars			
<b>Land:</b>						
Total	1,100 acres					
Total cultivated	1,050 acres					
<b>Improvements:</b>						
Tenant houses	2-bedroom	2	3,000.00	6,000.00	1,500.00	3,000.00
Labor cabins		10	500.00	5,000.00	250.00	2,500.00
Shop storage b/		1		5,000.00		2,500.00
Tractor, equip- ment shed		1		2,000.00		1,000.00
Grain storage	1,000 tons			10,000.00		5,000.00
Fuel storage - gas	550 gallons	1		135.00		67.50
Fuel storage - diesel	1,000 gallons	1		231.00		115.50
Subtotal				28,366.00		14,183.00
<b>Irrigation system:</b>						
Pumping plant	150 h.p.; 1,400 g.p.m.	2	13,000.00	26,000.00	6,662.50	13,325.00
Well, casing	16" diameter; 350' lift	2x1,400'	10.00	28,00.00	5.00	14,000.00
Pipe	12"	10,560'	.80	8,448.00	.40	4,224.00
Stands	8' - 36"	4	72.00	288.00	36.00	144.00
Vents	8' - 8"	6	5.60	33.60	2.80	16.80
Line gates	12"	6	51.00	306.00	25.50	153.00
Alfalfa valves	10"	80	15.00	1,200.00	7.50	600.00
Siphons	3/4" - 2"	1,000	1.25	1,250.00	.63	625.00
Subtotal				65,525.60		33,087.80
<b>Power:</b>						
Tracklayer	T-5D (35-45 h.p.)	1		7,000.00		3,850.00
Tracklayer	T-7D (60-70 h.p.)	1		11,225.00		6,173.75
Wheel tractor c/	W-1 (20-25 h.p.)	1		2,600.00		1,820.00
Wheel tractor	W-2 (25-35 h.p.)	2	3,000.00	6,000.00	2,100.00	4,200.00
Pickup.	1/2-ton	2	2,000.00	4,000.00	1,200.00	2,400.00
Truck	1 1/2-ton	2	2,800.00	5,600.00	1,470.00	2,940.00
Subtotal				36,425.00		21,383.75

(Continued on next page.)



1980

(.going to or no benefit?)

Table 4 Continued.

Item	Size or capacity	Amount	New cost		Average investment <sup>a/</sup>	
			per unit	total	per unit	total
	1	2	3	4	5	6
dollars						
<b>Equipment:</b>						
Ditcher	5'	1		140.00		70.00
Scraper	10'	1		520.00		260.00
Plow - disk-plow	6-blade	1		1,750.00		875.00
Chisel	8'	1		525.00		262.50
Disk, offset <sup>d/</sup>	10'	1		825.00		412.50
Disk, offset	12'	1		1,050.00		525.00
Disk, offset	16'	1		1,450.00		725.00
Border disk		1		175.00		87.50
Spiketooth harrow	5' section	6	50.00	300.00	25.00	150.00
Springtooth harrow <sup>d/</sup>	12'	1		240.00		120.00
Cultipacker	14'	1		450.00		225.00
Drag or float <sup>c/</sup>	12' x 20'	1		150.00		75.00
Lister	4-row	1		350.00		175.00
Lister planter	4-row	1		550.00		275.00
Cultivator	4-row	2	1,000.00	2,000.00	500.00	1,000.00
Fertilizer attachment <sup>c/</sup>	4-row	1		150.00		75.00
Cotton picker	1-row	2	8,700.00	17,400.00	5,220.00	10,440.00
Cotton trailer <sup>c/</sup>	4-bale	3	350.00	1,050.00	192.50	577.50
Cotton trailer	5-bale	4	400.00	1,600.00	220.00	880.00
Cotton trailer <sup>c/</sup>	6-bale	3	450.00	1,350.00	247.50	742.50
Stalk cutter	2-row	1		325.00		162.50
Grain drill	14'	1		850.00		425.00
Grain elevator <sup>c/</sup>		1		350.00		175.00
Grain unloader <sup>c/</sup>		1		350.00		175.00
Subtotals						
1955				33,900.00		18,890.00
1953				32,835.00		18,357.50
Totals						
1955				164,216.60		87,544.55
1953				163,151.60		87,012.05

<sup>a/</sup>  $\frac{\text{Original cost} + \text{Salvage value}}{2}$ 

Salvage values are listed in Table 11.

<sup>b/</sup> Includes \$2,000 worth of tools, equipment, and parts.<sup>c/</sup> Standby equipment owned but not used in 1953 or 1955.<sup>d/</sup> Equipment bought in 1955.

Source: Calculated from survey data.





TABLE 5

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton,  
1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements				
		Men	Power	Equipment		Man- hours	Tractor hours	Material		
								1953	1955	
	1	2	3	4	5	6	7	8	9	
4/1 - 4/15	Cut stalks	1	W-2	2-row stalk cutter	18	.50	.50			
	Disk 2X	1	T-7D	16' offset disk	40	.44	.44			
	Chisel	1	T-7D	8' chisel	20	.45	.45			
	Disk	1	T-7D	16' offset disk	40	.22	.22			
	Landplane 2X	1	T-7D	10'x60' landplane(rented)	25	.72	.72			
	Furrow out	1	W-2	4-row lister	36	.25	.25			
	Make head ditches*	1	T-5D	5' ditcher		.30	.30			
	Preirrigate							7.2 ac.in.	7 ac.in.	
	Fill in ditches*	1	T-5D	10' scraper		.30	.30			
	Disk	1	T-7D	16' offset disk	40	.22	.22			
	Harrow	1	T-7D	30' spiketooth	100	.09	.09			
	Plant	2	W-2	4-row lister-planter	29	.62	.31	18# acid delint		
	5/1 - 5/15	Cultipack	1	T-5D	14' cultipacker	50	.18	.18		
		Cultivate	1	W-2	4-row cultivator	20	.45	.45		
		Hand thin - Contract								
Cultivate (2)		1	W-2	4-row cultivator	22	.41	.41			
Fertilize - Contract								135# NH <sub>3</sub>	152# NH <sub>3</sub>	
Irrigate (1)								5 ac.in.	5 ac.in.	
Hand weed - Contract										
Cultivate (3)		1	W-2	4-row cultivator	26	.35	.35			
Irrigate (2)								5 ac.in.	5 ac.in.	
Cultivate (4)		1	W-2	4-row cultivator	26	.35	.35			
6/15 - 8/15	Dust 2X - Contract							60# of 5% DDT	50% S	
	Irrigate (3)							5 ac.in.	5 ac.in.	
	Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35			
	Irrigate (4)							5 ac.in.	5 ac.in.	

(Continued on next page.)

[illegible]

Summary of observations and briefest 'tuberc' has gone for production section'

Table 5 Continued.

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
	1	2	3	4	5	6	7	8	9
8/5 - 8/20 8/15 - 9/5	Cultivate & lay by (6) Irrigate 2X Defoliate - Contract	1	W-2	4-row cultivator	26	.35	.35	10 ac.in. 10# of NaClO <sub>3</sub> w/ Borate or Mg.	12 ac.in.
	Pick 1st - Machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - Machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1	Pick- up	5-bale tractor, trailer & pickup	6	1.50	1.50		
	Gin - Contract								

\*occurs 6X - man-hours and tractor-hours total for season.

Source: Calculated from survey data.



\*Percent (X) = man-points and tractor-points total for season.

TESTS 2 CONTINUED

TABLE 6  
Calendar of Operations and Physical Inputs Per Acre for Producing Alfalfa Seed,  
1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
4/10 - 4/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	300# Super phosphate 3 colonies 10 ac.in.
5/1 - 5/10	Fertilize - Contract							
	Bees - Contract							
4/20 - 5/10	Irrigate	1						
5/10 - 5/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	10 ac.in. 60# of 5% DDT 75% S
6/1 - 6/10	Irrigate	1						
	Dust 2X - Contract							
6/10 - 6/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	10 ac.in.
6/10 - 6/20	Weed - Contract							
7/1 - 7/10	Irrigate	1						
7/10 - 7/20	Cultivate	1	W-2	4-row cultivator	24	.38	.38	1 qt. Sinox in 10 gals.Diesel Oil
8/15 - 8/25	Defoliate - Contract							
8/20 - 8/30	Harvest - Contract							
9/1 - 9/10	Disk	1	W-2	10' offset disk	24	.38	.38	
9/10 - 9/20	Harrow 2X	1	W-2	12' springtooth	45	.40	.40	

Source: Calculated from survey data.





TABLE 7

Calendar of Operations and Physical Inputs Per Acre to Establish a Stand of Alfalfa Seed,  
1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-7D	16' offset disk	40	.44	.44	
	Chisel	1	T-7D	8' chisel	20	.45	.45	
	Disk	1	T-7D	16' offset disk	40	.22	.22	
	Landplane 2X	1	T-7D	10'x60' landplane(rent)	25	.72	.72	
	Furrow out	1	W-2	4-row lister	30	.30	.30	
	Make head ditches*	1	T-5D	5' ditcher		.05	.05	
	Preirrigate	1						8 ac. in.
	Fill in ditches*	1	T-5D	10' scraper		.05	.05	
	Disk	1	T-7D	16' offset disk	40	.22	.22	
	Harrow	1	T-7D	30' spiketooth harrow	100	.09	.09	
2/1 - 2/20	Plant	2	W-2	4-row lister-planter	29	.62	.31	1½# seed
3/1 - 3/20	Harrow	1	T-7D	30' spiketooth harrow	100	.09	.09	
	Dust - Contract							12.5# 2% Parathion

\*occurs 1X - man-hours and tractor-hours are total for season.  
Source: Calculated from survey data.



TABLE 8

Calendar of Operations and Physical Inputs Per Acre for Producing Milo,  
1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
	Disk 2X	1	T-5D	12' offset disk	34	.52	.52	
	Furrow out	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' ditcher		.15	.15	
	Preirrigate	1						7.8 ac.in.
	Fill in ditches*	1	T-5D	10' scraper		.15	.15	
	Disk & cultipack	1	T-5D	12' offset disk w/14' cultipacker attached	30	.30	.30	
4/20 - 5/1	Plant	2	W-2	4-row lister-planter	29	.62	.31	8# seed
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
5/20 - 6/1	Irrigate	1						6 ac.in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
7/1 - 8/1	Irrigate 2X	1						12 ac.in.
9/1 - on	Harvest - Contract							
	Haul - Contract							

\*occurs 3X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



01-04 \$40 13-556014

1. *Phragmites australis* (Cav.) Trin. ex Steud.

1987 8

TABLE 9

Calendar of Operations and Physical Inputs Per Acre for Producing Barley,  
1,100-acre Farm

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
	1	2	3	4	5	6	7	8	9
11/20 - 1/30	Disk 2X	1	T-7D	16' offset disk	40	.44	.44	6.6 ac.in.	7.6 ac.in.
	Landplane 2X - Contract								
	Border up	1	T-5D	Border disk	40	.22	.22		
	Preirrigate	1							
	Disk & Harrow	1	T-7D	16' offset disk w/20' harrow	38	.24	.24		
6/1 - 7/1	Seed	1	T-5D	14' grain drill	30	.30	.30	80# seed	80# seed
	Irrigate 2X	1						9 ac.in.	10.4ac.in.
	Harvest - Contract								
	Haul - Contract								

Source: Calculated from survey data.





TABLE 10

## Inputs and Costs for Producing Cotton,

1,100-acre Farm

Item	1953				1955			
	Acres: 360 — Yield: 1.9 bales				Acres: 200 — Yield: 2.25 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		5.00	5.19	1,870.00		5.00	5.22	1,045.00
Office		.43	.42	153.00		.43	.43	85.50
Improvements		2.47	2.44	880.29		2.47	2.46	491.93
Power			9.43	3,394.80			11.58	2,316.00
Equipment			15.89	5,720.40			26.96	5,392.00
Irrigation water			14.36	5,169.60			14.08	2,816.00
Labor			23.90	8,604.00			28.08	5,616.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.39	499.03			1.63	325.76
Total Fixed			73.02	26,291.12			90.44	18,088.69
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.78 hr.	.80	.62	223.20	.78 hr.	.87	.68	136.00
T-7D tractor	2.14 hr.	.90	1.92	691.20	2.14 hr.	.94	2.01	402.00
W-2 tractor	6.10 hr.	.75	4.55	1,638.00	6.10 hr.	.81	4.92	984.00
Pickup ( $\frac{1}{2}$ -ton)	50 mi.	.03	1.54	544.40	55 mi.	.03	1.69	338.00
Trucks ( $1\frac{1}{2}$ -ton)	20 mi.	.05	1.07	385.20	22 mi.	.05	1.18	236.00
<b>Equipment:</b>								
5' ditcher	.30 hr.	.04	.01	3.60	.30 hr.	.07	.02	4.00
10' scraper	.30 hr.	.14	.04	14.40	.30 hr.	.25	.07	14.00
8' chisel	.45 hr.	.32	.15	54.00	.45 hr.	.47	.21	42.00
16' offset disk	.88 hr.	.35	.31	111.60	.88 hr.	.37	.32	64.00
30' spiketooth harrow	.09 hr.	.07	.01	3.60	.09 hr.	.06	.01	2.00
14' cultipacker	.18 hr.	.59	.11	39.60	.18 hr.	1.25	.22	44.00
4-row lister	.25 hr.	.53	.13	46.80	.25 hr.	.81	.20	40.00
4-row lister planter	.31 hr.	.44	.14	50.40	.31 hr.	.71	.22	44.00
4-row cultivator	2.26 hr.	.47	1.06	381.60	2.26 hr.	.59	1.33	266.00
1-row cotton picker	2.78 hr.	2.91	8.08	2,908.80	2.78 hr.	5.23	14.55	2,910.00
5-bale cotton trailer	1.50 hr.	.09	.13	46.80	1.50 hr.	.16	.24	48.00
2-row stalk cutter	.50 hr.	.09	.05	18.00	.50 hr.	.16	.08	16.00
<b>Equipment (rented):</b>								
10' x 60' landplane	.72 hr.	2.00	1.44	518.40	.72 hr.	2.00	1.44	288.00

(Continued on next page.)



Table 10 continued.

Item	1953				1955			
	Acres: 360 — Yield: 1.9 bales				Acres: 200 — Yield: 2.25 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>Materials:</b>								
Irrigation water	37.2 ac <sup>n</sup>	.67	24.96	8,985.60	39 ac <sup>n</sup>	.65	25.43	5,086.00
Seed (acid delint)	18 lb.	.12	2.07	745.20	18 lb.	.12	2.07	414.00
<b>Labor:</b>								
Drivers	12.23 hr.	1.15	14.06	5,061.60	12.38 hr.	1.15	14.24	2,848.00
Irrigators	11.96 hr.	1.00	11.96	4,305.60	12.54 hr.	1.00	12.54	2,508.00
General	3.09 hr.	.90	2.78	1,000.80	3.09 hr.	.90	2.78	556.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.67	601.34			1.71	342.90
<b>Contracts:</b>								
Fertilize (NH <sub>3</sub> )	135 lb.		13.93	5,014.80	152 lb.		17.21	3,442.00
Hand thin			5.00	1,800.00			5.00	1,000.00
Hand weed			5.00	1,800.00			5.00	1,000.00
Dust 2x (5% DDT- 50% S)	60 lb.	.14	8.10	2,916.00	60 lb.	.14	8.10	1,620.00
Defoliate (NaClO <sub>3</sub> W/Borate or Mg.)	10 lb.		4.25	1,530.00	10 lb.		4.25	850.00
Gin	1.9 bale	14.70	27.93	10,054.80	2.25 bale	14.70	33.08	6,616.00
Insurance & storage	1.9 bale	1.19	2.26	813.60	2.25 bale	1.19	2.68	536.00
Interest on operating capital <sup>c/</sup>			2.93	1,056.35			3.26	652.02
Total Variable			148.26	53,365.29			166.74	33,348.92
Total Cost			221.28	79,656.41			257.18	51,437.61

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor costs.<sup>c/</sup> Total of variable expenses (less ginning costs) ÷ 2 x 5 percent.

Source: Calculated from survey data.



### • Benefits Of Elder

• 1940-1941

2.8 percent of total labor cost.

•  $\text{dim} V = 2 \times 5 = 10$  (since  $\text{dim} V = 2 \times 5$ ) and  $\text{dim} W = 5$  (since  $\text{dim} W = 5$ )

Source: Digitized from survey data.

## Inputs and Costs for Producing Alfalfa Seed,

1,100-acre Farm

Item	1955			
	Acres: 150 — Yield: 550 lbs.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		5.00	5.13	770.00
Office		.43	.42	63.00
Improvements		2.47	2.42	362.47
Power			2.92	438.00
Equipment			2.74	411.00
Irrigation water			12.64	1,896.00
Labor			15.14	2,270.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.88	131.69
1/3 cost to establish stand			9.34	1,401.57
Total Fixed			51.63	7,744.23
<b>VARIABLE:</b>				
<u>Power:</u>				
W-2 tractor	2.30 hr.	.81	1.86	279.00
Pickup (½-ton)	27 mi.	.03	.85	127.50
Truck (1½-ton)	11 mi.	.05	.59	88.50
<u>Equipment:</u>				
10' offset disk	.38 hr.	2.17	.82	123.00
12' springtooth harrow	.40 hr.	.12	.05	7.50
4-row cultivator	1.52 hr.	.59	.90	135.00
<u>Materials:</u>				
Irrigation water	35 ac <sup>o</sup>	.65	22.82	3,423.00
<u>Labor:</u>				
Driver	3.35 hr.	1.15	3.85	577.50
Irrigator	9.64 hr.	1.00	9.64	1,446.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.78	117.36
<u>Contracts:</u>				
Fertilize (super phosphate)	300 lb.		7.10	1,065.00
Bees (colonies)	3	5.00	15.00	2,250.00
Dust 2x (5% DDT-75% S)	60 lb.		7.95	1,192.50
Weed			15.00	2,250.00
Defoliate (ginox)	1 qt.		5.40	810.00
Harvest	550 lb.	.03	16.50	2,475.00
Certification fees (sacks, cleaning, inspection)			10.12	1,518.00
Box rental			1.00	150.00
Interest on operating capital <sup>c/</sup>			3.01	450.87
Total Variable			123.24	18,485.73
Total Cost			174.87	26,229.96

(Continued on next page.)

Total Cost			
Total Variable			
Interest on operating capital 2%			
Box rental			
(Lease, cleaning, inspection)			
Certification fees			
Harvest			
Total (Gross)			
Wash			
Dust ex (24 100-125 S)			
Pods (collected)			
Expenses (labor phosphate)			
Contract			
Contract 2000 & Corp. Insure. Co.			
Tractor			
Driver			
Labor			
Highway water			
Waterfall			
New cultivation			
120 springwater pump			
100' electric disk			
Truck (2 1/2 ton)			
Pickup (3/4 ton)			
W-1 tractor			
Labor			
Total Fixed			
1/3 cost to establish stand			
Cost 2000 & Corp. Insure. Co.			
Labor			
Installation water			
Equipment			
Power			
Improvements			
Office			
Real estate taxes			
Interest			
Total			



Table 11 continued.

a/ Rounded.

b/ 5.8 percent x total labor costs.

c/ Total of variable expenses  $\div 2$  x 5 percent.

Source: Calculated from survey data.

Table 1. Summary of results.

Table 1. Summary of results. The table shows the results of the analysis of variance for the different factors. The first column shows the factor, the second column shows the degrees of freedom, the third column shows the mean square, the fourth column shows the F-value, and the fifth column shows the probability of error.

TABLE 12

## Inputs and Costs for Establishing an Alfalfa Seed Stand,

1,100-acre Farm

Item	1955			
	Acres: 150			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
		dollars		
<u>Power:</u>				
T-5D tractor	.10 hr.	2.45	.25	37.50
T-7D tractor	2.23 hr.	2.61	5.82	873.00
W-2 tractor	.61 hr.	1.40	.85	127.50
<u>Equipment:</u>				
5' ditcher	.05 hr.	.37	.02	3.00
10' scraper	.05 hr.	1.38	.07	10.50
8' chisel	.45 hr.	1.11	.50	75.00
16' offset disk	.88 hr.	.70	.62	93.00
30' spiketooth harrow	.18 hr.	.33	.06	9.00
4-row lister	.30 hr.	1.55	.46	69.00
4-row lister planter	.31 hr.	1.70	.53	79.50
10' x 60' landplane (rented)	.72 hr.	2.00	1.44	216.00
<u>Materials:</u>				
Irrigation water	8 ac"	1.01	8.08	1,212.00
Seed	1.5 lb.	.40	.60	90.00
<u>Labor:</u>				
Driver	2.94 hr.	1.15	3.38	507.00
Irrigator	2.57 hr.	1.00	2.57	385.50
General	.31 hr.	.90	.28	42.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.36	54.20
<u>Contracts:</u>				
Dust (2% Parathion)	12.5 lb.		2.14	321.00
Total Cost			28.03	4,204.70
Amount Charged Off Annually			9.34	1,401.57

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.

Source: Calculated from survey data.





## Inputs and Costs for Producing Milo,

1,100-acre Farm

Item	1953			
	Acres: 40 — Yield: 40 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
dollars				
<b>FIXED:</b>				
Real estate taxes		5.00	5.50	220.00
Office		.43	.45	18.00
Improvements		2.47	2.59	103.56
Power			3.42	136.80
Equipment			1.84	73.60
Irrigation water			9.96	398.40
Labor			11.95	478.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.69	27.72
Total Fixed			36.40	1,456.08
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor	1.12 hr.	.80	.89	35.60
W-2 tractor	1.42 hr.	.75	1.06	42.40
Pickup ( $\frac{1}{2}$ ton)	25 mi.	.03	.77	30.80
Trucks ( $1\frac{1}{2}$ ton)	10 mi.	.05	.54	21.60
<u>Equipment:</u>				
5' ditcher	.15 hr.	.04		
10' scraper	.15 hr.	.14		
12' offset disk	.82 hr.	1.15	.94	37.60
14' cultipacker	.30 hr.	.59	.18	7.20
4-row lister	.25 hr.	.53	.13	5.20
4-row lister planter	.31 hr.	.44	.14	5.60
4-row cultivator	.86 hr.	.47	.41	16.40
<u>Materials:</u>				
Irrigation water	25.8 ac"	.67	17.31	692.40
Seed	8 lb.	.08	.64	25.60
<u>Labor:</u>				
Driver	3.49 hr.	1.15	4.01	160.40
Irrigator	8.29 hr.	1.00	8.29	331.60
General	.31 hr.	.90	.28	11.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.73	29.19
<u>Contracts:</u>				
Harvest			6.00	240.00
Haul	40 cwt.	.10	4.00	160.00
Insurance (\$1.50 per \$100.00 of value)			1.65	66.00
Interest on operating capital <sup>c/</sup>			1.20	47.97
Total Variable			49.17	1,966.76
Total Cost			85.57	3,422.84

(Continued on next page.)

(1925-1926)



Table 13 continued.

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses  $\div 2$  x 5 percent.

Amount of stock

2.5 percent of total of 100,000

Total of 2,500 shares of stock of 100,000

TABLE 14  
Inputs and Costs for Producing Barley,  
1,100-acre Farm

Item	1953				1955			
	Acres: 450 — Yield: 28 cwt.				Acres: 550 — Yield: 30 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
	dollars					dollars		
<b>FIXED:</b>								
Real estate taxes		5.00	5.26	2,365.00		5.00	5.30	2,915.00
Office		.43	.43	193.50		.43	.43	238.50
Improvements		2.47	2.47	1,113.31		2.47	2.50	1,372.22
Power			3.03	1,363.50			3.51	1,930.50
Equipment			.82	369.00			.72	396.00
Irrigation water			6.02	2,709.00			6.50	3,575.00
Labor			6.11	2,748.50			7.17	3,943.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.35	159.41			.42	228.72
Total Fixed			24.49	11,021.22			26.55	14,599.44
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.52 hr.	.80	.41	184.50	.52 hr.	.87	.45	247.50
T-7D tractor	.68 hr.	.90	.61	274.50	.68 hr.	.94	.64	352.00
Pickups ( $\frac{1}{2}$ ton)	25 mi.	.03	.77	346.50	27 mi.	.03	.85	467.50
Trucks ( $1\frac{1}{2}$ ton)	10 mi.	.05	.54	243.00	11 mi.	.05	.59	324.50
<b>Equipment:</b>								
16' offset disk	.68 hr.	.35	.24	108.00	.68 hr.	.37	.25	137.50
Border disk	.22 hr.	.18	.04	18.00	.22 hr.	.15	.03	16.50
20' spiketooth harrow	.24 hr.	.05	.01	4.50	.24 hr.	.04	.01	5.50
14' grain drill	.30 hr.	.13	.04	18.00	.30 hr.	.10	.03	16.50
<b>Materials:</b>								
Irrigation water	15.6 ac"	.67	10.47	4,711.50	18 ac"	.65	11.74	6,457.00
Seed	80 lb.	.04	3.20	1,440.00	80 lb.	.04	3.20	1,760.00
<b>Labor:</b>								
Drivers	2.15 hr.	1.15	2.47	1,111.50	2.25 hr.	1.15	2.59	1,424.50
Irrigators	5.01 hr.	1.00	5.01	2,254.50	5.01 hr.	1.00	5.01	2,755.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.43	195.23			.44	242.44
<b>Contracts:</b>								
Landplane 2K			8.00	3,600.00			8.00	4,400.00
Harvest			5.00	2,250.00			5.00	2,750.00
Haul	28 cwt.	.10	2.80	1,260.00	30 cwt	.10	3.00	1,650.00
Insurance (\$1.50 per \$100 of value)			1.13	508.50			.97	533.50
Interest on operating capital <sup>c/</sup>			1.03	463.21			1.07	588.51
Total Variable			42.20	18,991.44			43.87	24,128.95
Total Cost			66.69	30,012.66			70.42	38,728.39

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor cost.

<sup>c/</sup> Total of variable expenses ÷ 2.5 percent.



TABLE 14  
Inputs and Costs for Producing Output  
1,000-acre Farm

Input	1953			1952		
	Units	Price	Cost	Units	Price	Cost
Land	100	1.00	100.00	100	1.00	100.00
Water	100	1.00	100.00	100	1.00	100.00
Seed	100	1.00	100.00	100	1.00	100.00
Fertilizer	100	1.00	100.00	100	1.00	100.00
Pesticides	100	1.00	100.00	100	1.00	100.00
Labor	100	1.00	100.00	100	1.00	100.00
Interest on operating capital	100	1.00	100.00	100	1.00	100.00
Total Variable						
Output	100	1.00	100.00	100	1.00	100.00
Cost of output	100	1.00	100.00	100	1.00	100.00
Profit	100	1.00	100.00	100	1.00	100.00

Total cost = total labor cost  
Total cost = total labor cost  
Total cost = total labor cost

TABLE 15  
Inputs and Costs for Fallow Land,  
1,100-acre Farm

Item	1953				1955			
	Acres: 200				Acres: 150			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.22	1,045.00		5.00	5.13	770.00
Office		.43	.43	85.50		.43	.42	63.00
Improvements		2.47	2.46	491.93		2.47	2.42	362.47
Power			1.16	232.00			1.47	220.50
Equipment			1.75	350.00			2.56	384.00
Labor			.60	119.50			.80	119.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.03	6.93			.05	6.93
<b>Total Fixed</b>			11.65	2,330.86			12.85	1,926.40
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.93 hr.	.80	.74	148.00	.93 hr.	.87	.81	121.50
<b>Equipment:</b>								
6-blade disk-plow	.41 hr.	3.20	1.31	262.00	.41 hr.	4.27	1.75	262.50
12' offset disk	.52 hr.	1.15	.60	120.00	.52 hr.	2.02	1.05	157.50
<b>Labor:</b>								
Driver	.93 hr.	1.15	1.07	214.00	.93 hr.	1.15	1.07	160.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.06	12.41			.06	9.31
<b>Contracts:</b>								
Interest on operating capital <sup>c/</sup>			.09	18.91			.12	17.78
<b>Total Variable</b>			3.87	775.32			4.86	729.09
<b>Total Cost</b>			15.52	3,106.18			17.71	2,655.49

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor.

<sup>c/</sup> Total of variable expenses (less Operator's)  $\div$  2 x 5 percent.

Inputs and Costs for Yellow Lamb

Item	1983			1984			Unit used	Unit Cost per	Total Unit Cost per
	1	2	3	4	5	6			
Feed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Medicine	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Veterinarian	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Power	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Highway	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Subtotal	118.00	118.00	118.00	118.00	118.00	118.00	118.00	118.00	118.00
Total Fixed	118.00	118.00	118.00	118.00	118.00	118.00	118.00	118.00	118.00
Variable	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Subtotal	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00
Driver	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Subtotal	129.00	129.00	129.00	129.00	129.00	129.00	129.00	129.00	129.00
Total Variable	129.00	129.00	129.00	129.00	129.00	129.00	129.00	129.00	129.00

1.00 percent of total labor

Total of variable expenses (1.00 percent) ÷ 2 = 0.50 percent



TABLE 16

Physical Resources and Investments for Typical 2,800-acre Farms,  
1955 Prices

Item	Size or capacity	Amount	New cost		Average investment a/	
			per unit	total	per unit	total
	1	2	3	4	5	6
			dollars			
<u>Land:</u>						
Total	2,800 acres					
Total cultivated	2,700 acres					
<u>Improvements:</u>						
Tenant house	2-bedroom	2	3,500.00	7,000.00	1,750.00	3,500.00
Labor cabins		15	500.00	7,500.00	250.00	3,750.00
Shop, storage b/				6,500.00		3,250.00
Tractor, equip- ment shed				2,500.00		1,250.00
Grain storage	2,500 tons			25,000.00		12,500.00
Fuel storage - gas	1,000 gallons	1		330.00		165.00
Fuel storage - diesel	10,000 gallon	1		1,300.00		650.00
Subtotal				50,130.00		25,065.00
<u>Irrigation systems</u>						
Pumping plant	250 h.p.; 1,200 g.p.m.	5	21,500.00	107,500.00	11,018.75	55,093.75
Well, casing	16" diameter; 450' lift	5x1,700'	10.00	85,000.00	5.00	42,500.00
Pipe	16"	10,560'	1.00	10,560.00	.50	5,280.00
Stands	8' - 36"	5	72.00	360.00	36.00	180.00
Vents	6' - 8"	6	5.60	33.60	2.80	16.80
Line gates	16"	10	186.60	1,866.00	93.30	933.00
Siphons	1" - 3"	1,000	1.50	1,500.00	.75	750.00
Subtotal				206,819.60		104,753.55
<u>Power:</u>						
Tracklayer	T-5D (35-45 h.p.)	1		7,000.00		3,850.00
Tracklayer	T-7D (60-70 h.p.)	3	11,225.00	33,675.00	6,173.75	18,521.25
Tracklayer	T-9D (80-90 h.p.)	1		15,500.00		8,525.00
Wheel tractor	W-1 (20-25 h.p.)	2	2,600.00	5,200.00	1,820.00	3,640.00
Wheel tractor	W-2 (25-35 h.p.)	4	3,000.00	12,000.00	2,100.00	8,400.00
Pickup	1 1/2-ton	3	2,000.00	6,000.00	1,200.00	3,600.00
Truck	1 1/2-ton	2	2,800.00	5,600.00	1,470.00	2,940.00
Truck	2-ton	1		3,800.00		1,995.00
Subtotal				88,775.00		51,471.25

(Continued on next page.)

TABLE 10

Physical Requirements and Investments for Typical 2,000 sq. ft. Farm

Investment		Physical Requirements		Investment		Physical Requirements	
Item	Cost	Item	Cost	Item	Cost	Item	Cost
Land	10,000.00	Land	10,000.00	Land	10,000.00	Land	10,000.00
Buildings	15,000.00	Buildings	15,000.00	Buildings	15,000.00	Buildings	15,000.00
Equipment	5,000.00	Equipment	5,000.00	Equipment	5,000.00	Equipment	5,000.00
Stocks	2,000.00	Stocks	2,000.00	Stocks	2,000.00	Stocks	2,000.00
Feed	1,000.00	Feed	1,000.00	Feed	1,000.00	Feed	1,000.00
Transportation	1,000.00	Transportation	1,000.00	Transportation	1,000.00	Transportation	1,000.00
Utilities	1,000.00	Utilities	1,000.00	Utilities	1,000.00	Utilities	1,000.00
Insurance	1,000.00	Insurance	1,000.00	Insurance	1,000.00	Insurance	1,000.00
Other	1,000.00	Other	1,000.00	Other	1,000.00	Other	1,000.00
Total	46,000.00	Total	46,000.00	Total	46,000.00	Total	46,000.00

(Continued on next page.)



Table 16 Continued.

Item	Size or capacity	Amount	New cost		Average investment <u>a/</u>	
			per unit	total	per unit	total
	1	2	3	4	5	6
dollars						
<u>Equipment:</u>						
Ditcher <u>c/</u>	4'	1		135.00		67.50
Ditcher	5'	2	140.00	280.00	70.00	140.00
Scraper	8'	1		485.00		242.50
Carryall <u>c/</u>	8 yards	1		6,400.00		3,200.00
Landplane	10' x 60'	1		2,700.00		1,350.00
Disk - plow	6-blade	4	1,750.00	7,000.00	875.00	3,500.00
Chisel	10'	1		600.00		300.00
Disk, offset <u>c/</u>	8'	2	725.00	1,450.00	362.50	725.00
Disk, offset	18'	2	1,570.00	3,140.00	785.00	1,570.00
Disk, offset	24'	1		2,100.00		1,050.00
Border disk		1		175.00		87.50
Spiketooth harrow	5' sections	10	50.00	500.00	25.00	250.00
Springtooth harrow <u>c/</u>	4' sections	6	80.00	480.00	40.00	240.00
Cultipacker	12'	3	380.00	1,140.00	190.00	570.00
Drag or float <u>c/</u>	12' x 20'	1		150.00		75.00
Lister	4-row	1		350.00		175.00
Planter	4-row	3	500.00	1,500.00	250.00	750.00
Cultivator	4-row	5	1,000.00	5,000.00	500.00	2,500.00
Fertilizer attachment <u>c/</u>	4-row	2	150.00	300.00	75.00	150.00
Fertilizer spreader <u>c/</u>		2	335.00	670.00	167.50	335.00
Cotton picker	1-row	3	8,700.00	26,100.00	5,220.00	15,660.00
Cotton trailer <u>c/</u>	4-bale	5	350.00	1,750.00	192.50	962.50
Cotton trailer <u>c/</u>	5-bale	5	400.00	2,000.00	220.00	1,100.00
Cotton trailer	6-bale	5	450.00	2,250.00	247.50	1,237.50
Stalk cutter	2-row	2	325.00	650.00	162.50	325.00
Grain drill	12'	2	700.00	1,400.00	350.00	700.00
Harvester (combine) SP	16'	2	7,200.00	14,400.00	2,400.00	4,800.00
Grain elevator <u>c/</u>		1		350.00		175.00
Grain unloader <u>c/</u>		1		350.00		175.00
Subtotal				83,805.00		42,412.50
Total				429,529.60		223,702.30

a/  $\frac{\text{Original cost} + \text{Salvage value}}{2}$

Salvage values listed in Table 20.

b/ Includes \$3,000 worth of tools, equipment, and parts.

c/ Standby equipment owned but not used in 1953 or 1955.



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**gulev gervise + john leonard**

What is the effect of the following?

Value of \$3,000 worth of tools, equipment, and parts.

Standard equipment owned but not used in 1953 or 1954.

TABLE 17

Calendar of Operations and Physical Inputs Per Acre for Producing Cotton,  
2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
	1	2	3	4	5	6	7	8	9
4/1 - 4/15 5/1 - 5/15	Cut stalks	1	W-2	2-row stalk cutter	18	.50	.50		
	Disk 2X	1	T-9D	24' offset disk	60	.30	.30		
	Chisel	1	T-7D	10' chisel	24	.38	.38		
	Disk	1	T-9D	24' offset disk	60	.15	.15		
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72		
	Furrow cut	1	W-2	4-row lister	36	.25	.25		
	Make head ditches*	1	T-7D	double-wing ditcher		.30	.30		
	Preirrigate	1						7.2 ac.in.	7 ac.in.
	Fill in ditches*	1	T-5D	8' scraper		.30	.30		
	Disk	1	T-9D	18' offset disk	55	.16	.16		
	Harrow	1	T-7D	30' harrow	100	.09	.09		
	Plant	2	W-2	4-row planter	29	.62	.31	18# acid delint	
	Cultipack	1	T-5D	12' cultipacker	46	.20	.20		
	Cultivate (1)	1	W-2	4-row cultivator	20	.45	.45		
	6/15 - 8/15	Hand thin - Contract							
Cultivate (2)		1	W-2	4-row cultivator	22	.41	.41		
Fertilize - Contract								136# NH <sub>3</sub>	156# NH <sub>3</sub>
Irrigate (1)		1						5 ac.in.	5 ac.in.
Hand weed - Contract									
Cultivate (3)		1	W-2	4-row cultivator	22	.41	.41		
Irrigate (2)		1						5 ac.in.	5 ac.in.
Cultivate (4)		1	W-2	4-row cultivator	26	.35	.35		
Dust 2X - Contract								60# of 5% DDT	50% S
Irrigate (3)	1						5 ac.in.	5 ac.in.	
Cultivate (5)	1	W-2	4-row cultivator	26	.35	.35			
Irrigate (4)	1						5 ac.in.	5 ac.in.	

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S/S - S/S	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Cultivate (2)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (3)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (4)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (5)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Cultivate (3)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (5)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
S/S - S/S	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
S/S - S/S	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10
	Intake (1)	1	M-3	4-TOM CULTIVATOR	30	30	30	2 30.10	2 30.10

Category of Operations and Equipment Report for the year 1960 to 1961



Table 17 Continued.

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
	1	2	3	4	5	6	7	8	9
8/5 - 8/20	Cultivate & lay by (6)	1	W-2	4-row cultivator	26	.35	.35	10 ac.in 10# of NaClO <sub>3</sub> w/ Borate or Mg.	12 ac.in.
8/15 - 9/5	Irrigate 2X	1							
	Defoliate - Contract								
	Pick 1st - Machine	2	W-2	1-row cotton picker	6	3.00	1.50		
	Pick 2nd - Machine	2	W-2	1-row cotton picker	7	2.56	1.28		
	Haul to gin	1		6-bale trailer & pickup	6	1.50	1.50		
	Gin - Contract								

\*occurs 6X - man-hours and tractor-hours are total for season.

Source: Calculated from survey data.



TABLE 18

Calendar of Operations and Physical Inputs Per Acre for Producing Barley,  
2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements			
		Men	Power	Equipment		Man- hours	Tractor hours	Material	
								1953	1955
	1	2	3	4	5	6	7	8	9
11/20 - 1/30	Disk 2X	1	T-9D	18' offset disk	55	.32	.32	6.6 ac.in.	7.6 ac.in.
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72		
	Border up	1	T-5D	Border disk	40	.22	.22		
	Preirrigate	1							
	Disk & Harrow	1	T-9D	18' offset disk w/20' spiketooth harrow	50	.18	.18		
6/1 - 7/1	Seed	1	T-5D	2/12' grain drills	55	.16	.16	80# seed	80# seed
	Irrigate 2X	1						9 ac.in.	10.4 ac.in.
	Harvest	2		16' harvester - SP	25	.72	.36		
	Haul	1		1½-ton truck	25	.36	.36		

Source: Calculated from survey data.





TABLE 19

Calendar of Operations and Physical Inputs Per Acre for Producing Melons,  
2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
3/15 - 4/20	Disk 2X	1	T-9D	24' offset disk	60	.30	.30	
	Chisel	1	T-7D	10' chisel	24	.38	.38	
	Disk	1	T-9D	18' offset disk	55	.16	.16	
	Landplane 2X	1	T-7D	10'x60' landplane	25	.72	.72	
	Furrow out	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-5D	5' double-wing ditcher		.15	.15	
	Preirrigate	1						6.2 ac. in.
	Fill in ditches*	1	T-5D	8' scraper		.15	.15	
	Disk	1	T-9D	18' offset disk	55	.16	.16	
	Harrow	1	T-7D	30' harrow	90	.10	.10	
	Plant	2	W-2	4-row planter (only plant 2 rows)	29	.62	.31	3# seed
	Fertilize - Contract							119# NH <sub>3</sub>
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
	Irrigate	1						5.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
7/15 - 9/1	Irrigate 3X	1						16.5 ac. in.
	Dust 4X - Contract							3 app. 90# of 5% DDT & 1 app. 40# of 1% TEPP
	Chop, Weed, turn Vines 2X- Contract							
	Harvest - Contract							
	Pack - Contract							

\*occurs 3X - man-hours and tractor-hours are total for season.  
Source: Calculated from survey data.

\*OCCLUDE 3X - 400X-POWERS AND 1000X-POWERS ARE 40:00 FOR 40:00.

10 FEB 1968



TABLE 20  
Calendar of Operations and Physical Inputs Per Acre for Producing Sugar Beets,  
2,800-acre Farms

Dates	Operations	Crew and Equipment			Acres per 9-hour day	Physical requirements		
		Men	Power	Equipment		Man- hours	Tractor hours	Material
	1	2	3	4	5	6	7	8
1/20 - 2/20	Disk 2X	1	T-9D	18' offset disk	55	.32	.32	
	Chisel	1	T-7D	10' chisel	24	.38	.38	
	Disk 2X & harrow	1	T-9D	18' offset disk w/20' spiketooth	50	.36	.36	
	Landplane	1	T-7D	10'x60' landplane	25	.36	.36	
	Bed up	1	W-2	4-row lister	36	.25	.25	
	Make head ditches*	1	T-7D	Double-wing ditcher		.30	.30	
	Preirrigate	1						6 ac. in.
	Fill in ditches*	1	T-5D	8' scraper		.30	.30	
	Plant	1	W-2	4-row planter	29	.31	.31	8# seed
	Cultipack	1	W-2	12' cultipacker	44	.20	.20	
	Irrigate	1						4.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	20	.45	.45	
	Thin - Contract							
	Irrigate	1						4.5 ac. in.
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
	Fertilize - Contract							119# NH <sub>3</sub>
	Irrigate	1						4.5 ac. in.
	Weed - Contract							
	Cultivate	1	W-2	4-row cultivator	22	.41	.41	
	Irrigate 2X	1						9 ac. in.
	Cultivate	1	W-2	4-row cultivator	26	.35	.35	
	Irrigate 3X	1						13.5 ac. in.
8/1 - 9/1	Plow in ditches	1	T-5D	8' scraper		.05	.05	
8/1 - 9/1	Harvest - Contract							
8/1 - 9/1	Haul - Contract							

\*occurs 6X - man-hours and tractor-hours are total for season.  
Source: Calculated from survey data.

S 800-9016 ES2002

Changes of operations and expenses in 1964 for work for production under budget:

17P E 50



## Inputs and Costs for Producing Cotton,

2,800-1 Farm

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used	Unit	Cost per	Total	Units used	Unit	Cost per	Total
	per acre <sup>a</sup> /	cost <sup>a</sup> /	acre	cost	per acre <sup>a</sup> /	cost <sup>a</sup> /	acre	cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.25	4,200.00			5.09	2,240.00
Office		.28	.28	225.00			.27	120.00
Improvements		1.73	1.75	1,398.38			1.70	745.80
Power			8.77	7,016.00			11.48	5,051.20
Equipment			12.48	9,984.00			22.24	9,785.60
Irrigation water			20.24	16,192.00			23.13	10,177.20
Labor			17.38	13,903.50			22.90	10,075.00
Soc. Sec. & Comp. Insur. <sup>b</sup> /			1.01	806.40			1.33	584.35
Total Fixed			67.16	53,725.28			88.14	38,779.15
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.50 hr.	.70	.35	280.00	.50 hr.	.70	.35	154.00
T-7D tractor	1.49 hr.	.99	1.47	1,176.00	1.49 hr.	1.04	1.54	677.60
T-9D tractor	.61 hr.	1.02	.62	496.00	.61 hr.	1.04	.63	277.20
W-2 tractor	6.16 hr.	.73	4.52	3,616.00	6.16 hr.	.84	5.20	2,288.00
Pickups	32 mi.	.03	1.01	808.00	37 mi.	.03	1.18	519.20
Trucks 1½ ton	8 mi.	.05	.45	360.00	10 mi.	.05	.53	233.20
Trucks 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.28	123.20
<b>Equipment:</b>								
5' ditcher	.30 hr.	.04	.01	8.00	.30 hr.	.06	.02	8.80
8' scraper	.30 hr.	.06	.02	16.00	.30 hr.	.11	.03	13.20
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.20	.07	56.00	.38 hr.	.36	.14	61.60
18' offset disk	.16 hr.	.47	.07	56.00	.16 hr.	.42	.07	30.80
24' offset disk	.45 hr.	.88	.39	312.00	.45 hr.	1.59	.72	316.80
30' spiketooth harrow	.09 hr.	.05		3.89	.09 hr.	.05		2.10
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	1.30	.26	114.40
4-row lister	.25 hr.	.26	.07	56.00	.25 hr.	.48	.12	52.80
4-row planter	.31 hr.	.12	.04	32.00	.31 hr.	.22	.07	30.80
4-row cultivator	2.32 hr.	.54	1.25	1,000.00	2.32 hr.	.98	2.27	998.80
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.57	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)



1. 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581,

Table 21 continued.

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used	Unit	Cost per	Total	Units used	Unit	Cost per	Total
	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost
	1	2	3	4	5	6	7	8
	dollars				dollars			
<b>Materials:</b>								
Irrigation water	37.2 ac"	1.25	46.54	37,232.00	39.0 ac"	1.30	50.54	22,237.60
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
<b>Labor:</b>								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.48 hr.	1.15	13.20	5,808.00
Irrigator	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.40	1,121.02			1.44	631.88
<b>Contracts:</b>								
Fertilize (NH <sub>3</sub> )	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2x (5% DDT-50% S)	60 lb.	.14	8.10	6,480.00	60 lb.	.14	8.10	3,564.00
Defoliate (NaC/O <sub>3</sub> W/Borate or Mg.)	10 lb.		4.25	3,400.00	10 lb.		4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insurance & storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital <sup>c/</sup>			2.94	2,350.37			3.26	1,435.90
Total Variable			157.03	125,627.28			177.70	78,189.88
Total Cost			224.19	179,352.56			265.84	116,969.03

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less ginning costs) - 2 x 4.5%.

560000 12

3.2 percent x total lot of 1000

4 x 5 - (atom polarity coeff) exchange coefficient to later 10



TABLE 22

## Inputs and Costs for Producing Barley

2,800-1 farm

Item	1953				1955			
	Acres: 1250 — Yield: 31 cwt.				Acres: 1560 — Yield: 33			
	Units used	Unit	Cost per	Total	Units used	Unit	Cost per	Total
	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost
	1	2	3	4	5	6	7	8
	dollars			dollars				
<b>FIXED:</b>								
Real estate taxes		5.00	5.15	6,440.00		5.00	5.20	8,120.00
Office		.28	.28	345.00		.28	.28	435.00
Improvements		1.73	1.72	2,144.17		1.73	1.73	2,703.52
Power			3.63	4,537.50			4.02	6,271.20
Equipment			2.53	3,162.50			2.16	3,369.60
Irrigation water			8.49	10,612.50			10.67	16,645.20
Labor			4.67	5,843.50			6.07	9,470.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.27	338.92			.35	549.29
Total Fixed			26.74	33,424.09			30.48	47,564.31
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.38 hr.	.70	.26	325.00	.38 hr.	.70	.27	421.20
T-7D tractor	.72 hr.	.99	.71	887.50	.72 hr.	1.04	.75	1,170.00
T-9D tractor	.50 hr.	1.02	.51	637.50	.50 hr.	1.04	.52	811.20
Pickup	16 mi.	.03	.51	637.50	18 mi.	.03	.59	920.40
Truck 1½ ton	4 mi.	.05	.23	287.50	5 mi.	.05	.27	421.20
Truck 2 ton	2 mi.	.07	.12	150.00	2 mi.	.07	.14	218.40
<b>Equipment:</b>								
10' x 60' landplane	.72 hr.	.09	.07	87.50	.72 hr.	.09	.07	109.20
18' offset disk	.50 hr.	.47	.23	287.50	.50 hr.	.42	.21	327.60
Border disk	.22 hr.	.06	.01	12.50	.22 hr.	.05	.01	15.60
20' spiketooth harrow	.18 hr.	.04	.01	12.50	.18 hr.	.04	.01	15.60
12' grain drill	.16 hr.	.14	.02	25.00	.16 hr.	.11	.02	31.20
16' combines - SP	.36 hr.	5.36	1.93	2,412.50	.36 hr.	4.41	1.59	2,480.40
<b>Materials:</b>								
Irrigation water	15.6 ac <sup>a/</sup>	1.25	19.52	24,400.00	18 ac <sup>a/</sup>	1.30	23.33	36,394.80
Seed	80 lb.	.04	3.20	4,000.00	80 lb.	.04	3.20	4,992.00
<b>Labor:</b>								
Drivers	2.19 hr.	1.15	2.52	3,150.00	2.29 hr.	1.15	2.63	4,102.80
Irrigators	3.51 hr.	1.00	3.51	4,387.50	3.51 hr.	1.00	3.51	5,475.60
General	.36 hr.	.90	.32	400.00	.36 hr.	.90	.32	499.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.37	460.38			.37	584.50
<b>Contracts:</b>								
Insurance (\$1.50 per \$100.00 of value)			1.26	1,569.38			1.06	1,660.23
Interest on operating capital <sup>c/</sup>			.79	992.92			.87	1,364.65
Total Variable			36.10	45,122.68			39.74	62,015.78
Total Cost			62.84	78,546.77			70.22	109,580.09

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses  $\times$  2 x 4.5 percent.

... ..

10/10/2007 10:00:00 AM



TABLE 23

## Inputs and Costs for Fallow Land

2,800-1 Farm

Item	1953				1955			
	Acres — 650				Acres: — 700			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.20	3,640.00
Office		.28	.28	180.00		.28	.28	195.00
Improvements		1.73	1.72	1,118.70		1.73	1.73	1,211.93
Power			1.12	728.00			1.24	868.00
Equipment			1.65	1,072.50			1.53	1,071.00
Labor			.62	403.00			.86	604.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.04	23.37			.05	35.06
Total Fixed			10.60	6,885.57			10.89	7,625.49
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.41 hr.	.70	.29	188.50	.41 hr.	.70	.29	203.00
T-7D tractor	.40 hr.	.99	.40	260.00	.40 hr.	1.04	.41	287.00
<b>Equipment:</b>								
6' black disk plow	.41 hr.	3.94	1.62	1,053.00	.41 hr.	3.66	1.50	1,050.00
18' offset disk	.40 hr.	.47	.19	123.50	.40 hr.	.42	.17	119.00
<b>Labor:</b>								
Drivers	.81 hr.	115	.93	604.50	.81 hr.	115	.93	651.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.05	35.06			.05	37.76
<b>Contracts:</b>								
Interest on operating capital <sup>c/</sup>			.08	50.95			.08	52.82
Total Variable			3.56	2,315.51			3.43	2,400.58
Total Cost			14.16	9,201.08			14.32	10,026.07

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses - 2 x 4.5 percent.



ES 3127

has! well! not stood has again

3/ 2.2 percent x total labor cost.

• January 1, 1953 - consume - 100% to 100% 100%

TABLE 24

## Inputs and Costs for Producing Cotton

2,800-2 Farms

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
	dollars				dollars			
<b>FIXED:</b>								
Real estate taxes		5.00	5.25	4,200.00		5.00	5.09	2,240.00
Office		.28	.28	225.00		.28	.27	120.00
Improvements		1.73	1.75	1,398.38		1.73	1.70	745.80
Power			8.77	7,016.00			10.75	4,730.00
Equipment			12.48	9,984.00			20.66	9,090.40
Irrigation water			20.24	16,192.00			20.16	8,870.40
Labor			17.38	13,903.50			21.07	9,269.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.01	806.40			1.22	537.60
Total Fixed			67.16	53,725.28			80.92	35,603.20
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.50 hr.	.70	.35	280.00	.50 hr.	.71	.35	154.00
T-7D tractor	1.49 hr.	.99	1.47	1,176.00	1.49 hr.	1.02	1.52	668.80
T-9D tractor	.61 hr.	1.02	.62	496.00	.61 hr.	1.02	.62	272.80
W-2 tractor	6.16 hr.	.73	4.52	3,616.00	6.61 hr.	.81	4.97	2,186.80
Pickup	32 mi.	.03	1.01	808.00	35 mi.	.03	1.13	497.20
Truck- 1½ ton	8 mi.	.05	.45	360.00	9 mi.	.05	.51	224.40
Truck- 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.27	118.80
<b>Equipment:</b>								
5' ditcher	.30 hr.	.04	.01	8.00	.30 hr.	.04	.01	4.40
8' scraper	.30 hr.	.06	.02	16.00	.30 hr.	.07	.02	8.80
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.20	.07	56.00	.38 hr.	.25	.09	39.60
18' offset disk	.16 hr.	.47	.07	56.00	.16 hr.	.40	.06	26.40
24' offset disk	.45 hr.	.88	.39	312.00	.45 hr.	1.59	.72	316.80
30' spiketooth harrow	.09 hr.	.05		3.89	.09 hr.	.05		2.02
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	.89	.18	79.20
4-row lister	.25 hr.	.26	.07	56.00	.25 hr.	.33	.08	35.20
4-row planter	.31 hr.	.12	.04	32.00	.31 hr.	.15	.05	22.00
4-row cultivator	2.32 hr.	.54	1.25	1,000.00	2.32 hr.	.74	1.72	756.80
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.56	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)

Reports and Costs for Producing Cotton



Table 24 continued.

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used	Unit	Cost per	Total	Units used	Unit	Cost per	Total
	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost
	1	2	3	4	5	6	7	8
	dollars				dollars			
<b>Materials:</b>								
Irrigation water	37.2 ac <sup>n</sup>	1.25	46.54	37,232.00	39.0 ac <sup>n</sup>	1.23	47.81	21,036.40
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
<b>Labor:</b>								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.42 hr.	1.15	13.13	5,777.20
Irrigators	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Ins. <sup>b/</sup>			1.40	1,121.02			1.43	630.09
<b>Contracts:</b>								
Fertilize (NH <sub>3</sub> )	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2X (5% DDT - 50% S)	60 lb.		8.10	6,480.00			8.10	3,564.00
Defoliate (NaClO <sub>3</sub> W/Borate or Mg.)	10 lb.		4.25	3,400.00			4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insur. & storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital <sup>c/</sup>			2.94	2,350.37			3.18	1,397.15
Total Variable			157.03	125,627.28			173.70	76,428.86
Total Cost			224.19	179,352.56			254.62	112,032.06

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses (less ginning) ÷ 2 x 4.5 percent.

Statement of Financial Position									
As of December 31, 2010									
Assets									
Current Assets									
Cash	10,000.00								
Accounts Receivable	20,000.00								
Inventory	10,000.00								
Prepaid Expenses	5,000.00								
Other Current Assets	5,000.00								
Total Current Assets	50,000.00								
Non-Current Assets									
Property, Plant, and Equipment	100,000.00								
Intangible Assets	10,000.00								
Other Non-Current Assets	5,000.00								
Total Non-Current Assets	115,000.00								
Total Assets	165,000.00								
Liabilities and Equity									
Current Liabilities									
Accounts Payable	10,000.00								
Short-Term Debt	20,000.00								
Other Current Liabilities	5,000.00								
Total Current Liabilities	35,000.00								
Non-Current Liabilities									
Long-Term Debt	50,000.00								
Other Non-Current Liabilities	5,000.00								
Total Non-Current Liabilities	55,000.00								
Total Liabilities	90,000.00								
Equity									
Common Stock	100,000.00								
Retained Earnings	75,000.00								
Total Equity	175,000.00								
Total Liabilities and Equity	265,000.00								

Total of 100 shares outstanding at \$10.00 per share.

Total of 100 shares outstanding at \$10.00 per share.

Total of 100 shares outstanding at \$10.00 per share.

TABLE 25

35.

## Inputs and Costs for Producing Barley,

2,800-2 Farms

Item	1953				1955			
	Acres: 1,250 — Yield: 31 cwt.		Acres: 1,460 — Yield: 33 cwt.		Acres: 1,460 — Yield: 33 cwt.		Acres: 1,460 — Yield: 33 cwt.	
	Units used per acre <sup>a</sup>	Unit cost <sup>a</sup>	Cost per acre	Total cost	Units used per acre <sup>a</sup>	Unit cost <sup>a</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.15	6,440.00		5.00	5.18	7,560.00
Office		.43	.28	345.00		.43	.28	405.00
Improvements		2.47	1.72	2,144.17		2.47	1.72	2,517.08
Power			3.63	4,537.50			3.88	5,664.80
Equipment			2.53	3,162.50			2.23	3,255.80
Irrigation water			8.49	10,612.50			9.31	13,592.60
Labor			4.67	5,843.50			5.38	7,858.50
Soc. Sec. & Comp. Insur. <sup>b</sup>			.27	338.92			.31	455.79
Total Fixed			26.74	33,424.09			28.29	41,309.57
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.38 hr.	.70	.26	325.00	.38 hr.	.71	.27	394.20
T-7D tractor	.72 hr.	.99	.71	887.50	.72 hr.	1.02	.73	1,065.80
T-9D tractor	.50 hr.	1.02	.51	637.50	.50 hr.	1.02	.51	744.60
Pickup	16 mi.	.03	.51	637.50	18 mi.	.03	.57	832.20
Truck 1½ ton	4 mi.	.05	.23	287.50	5 mi.	.05	.26	379.60
Truck 2 ton	2 mi.	.07	.12	150.00	2 mi.	.07	.13	189.80
<b>Equipment:</b>								
10' x 60' landplane	.72 hr.	.09	.07	87.50	.72 hr.	.09	.07	102.20
18' offset disk	.50 hr.	.47	.23	287.50	.50 hr.	.40	.20	292.00
Border disk	.22 hr.	.06	.01	12.50	.22 hr.	.06	.01	14.60
20' spike tooth harrow	.18 hr.	.04	.01	12.50	.18 hr.	.03	.01	14.60
12' grain drill	.16 hr.	.14	.02	25.00	.16 hr.	.12	.02	29.20
16' harvester SP	.36 hr.	5.36	1.93	2,412.50	.36 hr.	4.70	1.68	2,452.80
<b>Materials:</b>								
Irrigation water	15.6 ac"	1.25	19.52	24,400.00	18 ac"	1.23	22.07	32,222.20
Seed	80 lb.	.04	3.20	4,000.00	80 lb.	.04	3.20	4,672.00

(Continued on next page.)



Statement of Assets and Liabilities

For the year ended 1900

Assets				Liabilities			
Real Estate	Personal Property	Investments	Other Assets	Capital	Reserves	Debt	Other Liabilities
100,000.00	50,000.00	20,000.00	10,000.00	180,000.00	10,000.00	10,000.00	10,000.00
20,000.00	10,000.00	5,000.00	2,000.00	37,000.00	5,000.00	5,000.00	5,000.00
30,000.00	15,000.00	7,000.00	3,000.00	55,000.00	7,000.00	7,000.00	7,000.00
40,000.00	20,000.00	9,000.00	4,000.00	73,000.00	9,000.00	9,000.00	9,000.00
50,000.00	25,000.00	11,000.00	5,000.00	91,000.00	11,000.00	11,000.00	11,000.00
60,000.00	30,000.00	13,000.00	6,000.00	109,000.00	13,000.00	13,000.00	13,000.00
70,000.00	35,000.00	15,000.00	7,000.00	127,000.00	15,000.00	15,000.00	15,000.00
80,000.00	40,000.00	17,000.00	8,000.00	145,000.00	17,000.00	17,000.00	17,000.00
90,000.00	45,000.00	19,000.00	9,000.00	163,000.00	19,000.00	19,000.00	19,000.00
100,000.00	50,000.00	21,000.00	10,000.00	181,000.00	21,000.00	21,000.00	21,000.00
110,000.00	55,000.00	23,000.00	11,000.00	199,000.00	23,000.00	23,000.00	23,000.00
120,000.00	60,000.00	25,000.00	12,000.00	217,000.00	25,000.00	25,000.00	25,000.00
130,000.00	65,000.00	27,000.00	13,000.00	235,000.00	27,000.00	27,000.00	27,000.00
140,000.00	70,000.00	29,000.00	14,000.00	253,000.00	29,000.00	29,000.00	29,000.00
150,000.00	75,000.00	31,000.00	15,000.00	271,000.00	31,000.00	31,000.00	31,000.00
160,000.00	80,000.00	33,000.00	16,000.00	289,000.00	33,000.00	33,000.00	33,000.00
170,000.00	85,000.00	35,000.00	17,000.00	307,000.00	35,000.00	35,000.00	35,000.00
180,000.00	90,000.00	37,000.00	18,000.00	325,000.00	37,000.00	37,000.00	37,000.00
190,000.00	95,000.00	39,000.00	19,000.00	343,000.00	39,000.00	39,000.00	39,000.00
200,000.00	100,000.00	41,000.00	20,000.00	361,000.00	41,000.00	41,000.00	41,000.00
210,000.00	105,000.00	43,000.00	21,000.00	379,000.00	43,000.00	43,000.00	43,000.00
220,000.00	110,000.00	45,000.00	22,000.00	397,000.00	45,000.00	45,000.00	45,000.00
230,000.00	115,000.00	47,000.00	23,000.00	415,000.00	47,000.00	47,000.00	47,000.00
240,000.00	120,000.00	49,000.00	24,000.00	433,000.00	49,000.00	49,000.00	49,000.00
250,000.00	125,000.00	51,000.00	25,000.00	451,000.00	51,000.00	51,000.00	51,000.00
260,000.00	130,000.00	53,000.00	26,000.00	469,000.00	53,000.00	53,000.00	53,000.00
270,000.00	135,000.00	55,000.00	27,000.00	487,000.00	55,000.00	55,000.00	55,000.00
280,000.00	140,000.00	57,000.00	28,000.00	505,000.00	57,000.00	57,000.00	57,000.00
290,000.00	145,000.00	59,000.00	29,000.00	523,000.00	59,000.00	59,000.00	59,000.00
300,000.00	150,000.00	61,000.00	30,000.00	541,000.00	61,000.00	61,000.00	61,000.00
310,000.00	155,000.00	63,000.00	31,000.00	559,000.00	63,000.00	63,000.00	63,000.00
320,000.00	160,000.00	65,000.00	32,000.00	577,000.00	65,000.00	65,000.00	65,000.00
330,000.00	165,000.00	67,000.00	33,000.00	595,000.00	67,000.00	67,000.00	67,000.00
340,000.00	170,000.00	69,000.00	34,000.00	613,000.00	69,000.00	69,000.00	69,000.00
350,000.00	175,000.00	71,000.00	35,000.00	631,000.00	71,000.00	71,000.00	71,000.00
360,000.00	180,000.00	73,000.00	36,000.00	649,000.00	73,000.00	73,000.00	73,000.00
370,000.00	185,000.00	75,000.00	37,000.00	667,000.00	75,000.00	75,000.00	75,000.00
380,000.00	190,000.00	77,000.00	38,000.00	685,000.00	77,000.00	77,000.00	77,000.00
390,000.00	195,000.00	79,000.00	39,000.00	703,000.00	79,000.00	79,000.00	79,000.00
400,000.00	200,000.00	81,000.00	40,000.00	721,000.00	81,000.00	81,000.00	81,000.00
410,000.00	205,000.00	83,000.00	41,000.00	739,000.00	83,000.00	83,000.00	83,000.00
420,000.00	210,000.00	85,000.00	42,000.00	757,000.00	85,000.00	85,000.00	85,000.00
430,000.00	215,000.00	87,000.00	43,000.00	775,000.00	87,000.00	87,000.00	87,000.00
440,000.00	220,000.00	89,000.00	44,000.00	793,000.00	89,000.00	89,000.00	89,000.00
450,000.00	225,000.00	91,000.00	45,000.00	811,000.00	91,000.00	91,000.00	91,000.00
460,000.00	230,000.00	93,000.00	46,000.00	829,000.00	93,000.00	93,000.00	93,000.00
470,000.00	235,000.00	95,000.00	47,000.00	847,000.00	95,000.00	95,000.00	95,000.00
480,000.00	240,000.00	97,000.00	48,000.00	865,000.00	97,000.00	97,000.00	97,000.00
490,000.00	245,000.00	99,000.00	49,000.00	883,000.00	99,000.00	99,000.00	99,000.00
500,000.00	250,000.00	101,000.00	50,000.00	901,000.00	101,000.00	101,000.00	101,000.00
510,000.00	255,000.00	103,000.00	51,000.00	919,000.00	103,000.00	103,000.00	103,000.00
520,000.00	260,000.00	105,000.00	52,000.00	937,000.00	105,000.00	105,000.00	105,000.00
530,000.00	265,000.00	107,000.00	53,000.00	955,000.00	107,000.00	107,000.00	107,000.00
540,000.00	270,000.00	109,000.00	54,000.00	973,000.00	109,000.00	109,000.00	109,000.00
550,000.00	275,000.00	111,000.00	55,000.00	991,000.00	111,000.00	111,000.00	111,000.00
560,000.00	280,000.00	113,000.00	56,000.00	1,009,000.00	113,000.00	113,000.00	113,000.00
570,000.00	285,000.00	115,000.00	57,000.00	1,027,000.00	115,000.00	115,000.00	115,000.00
580,000.00	290,000.00	117,000.00	58,000.00	1,045,000.00	117,000.00	117,000.00	117,000.00
590,000.00	295,000.00	119,000.00	59,000.00	1,063,000.00	119,000.00	119,000.00	119,000.00
600,000.00	300,000.00	121,000.00	60,000.00	1,081,000.00	121,000.00	121,000.00	121,000.00
610,000.00	305,000.00	123,000.00	61,000.00	1,099,000.00	123,000.00	123,000.00	123,000.00
620,000.00	310,000.00	125,000.00	62,000.00	1,117,000.00	125,000.00	125,000.00	125,000.00
630,000.00	315,000.00	127,000.00	63,000.00	1,135,000.00	127,000.00	127,000.00	127,000.00
640,000.00	320,000.00	129,000.00	64,000.00	1,153,000.00	129,000.00	129,000.00	129,000.00
650,000.00	325,000.00	131,000.00	65,000.00	1,171,000.00	131,000.00	131,000.00	131,000.00
660,000.00	330,000.00	133,000.00	66,000.00	1,189,000.00	133,000.00	133,000.00	133,000.00
670,000.00	335,000.00	135,000.00	67,000.00	1,207,000.00	135,000.00	135,000.00	135,000.00
680,000.00	340,000.00	137,000.00	68,000.00	1,225,000.00	137,000.00	137,000.00	137,000.00
690,000.00	345,000.00	139,000.00	69,000.00	1,243,000.00	139,000.00	139,000.00	139,000.00
700,000.00	350,000.00	141,000.00	70,000.00	1,261,000.00	141,000.00	141,000.00	141,000.00
710,000.00	355,000.00	143,000.00	71,000.00	1,279,000.00	143,000.00	143,000.00	143,000.00
720,000.00	360,000.00	145,000.00	72,000.00	1,297,000.00	145,000.00	145,000.00	145,000.00
730,000.00	365,000.00	147,000.00	73,000.00	1,315,000.00	147,000.00	147,000.00	147,000.00
740,000.00	370,000.00	149,000.00	74,000.00	1,333,000.00	149,000.00	149,000.00	149,000.00
750,000.00	375,000.00	151,000.00	75,000.00	1,351,000.00	151,000.00	151,000.00	151,000.00
760,000.00	380,000.00	153,000.00	76,000.00	1,369,000.00	153,000.00	153,000.00	153,000.00
770,000.00	385,000.00	155,000.00	77,000.00	1,387,000.00	155,000.00	155,000.00	155,000.00
780,000.00	390,000.00	157,000.00	78,000.00	1,405,000.00	157,000.00	157,000.00	157,000.00
790,000.00	395,000.00	159,000.00	79,000.00	1,423,000.00	159,000.00	159,000.00	159,000.00
800,000.00	400,000.00	161,000.00	80,000.00	1,441,000.00	161,000.00	161,000.00	161,000.00
810,000.00	405,000.00	163,000.00	81,000.00	1,459,000.00	163,000.00	163,000.00	163,000.00
820,000.00	410,000.00	165,000.00	82,000.00	1,477,000.00	165,000.00	165,000.00	165,000.00
830,000.00	415,000.00	167,000.00	83,000.00	1,495,000.00	167,000.00	167,000.00	167,000.00
840,000.00	420,000.00	169,000.00	84,000.00	1,513,000.00	169,000.00	169,000.00	169,000.00
850,000.00	425,000.00	171,000.00	85,000.00	1,531,000.00	171,000.00	171,000.00	171,000.00
860,000.00	430,000.00	173,000.00	86,000.00	1,549,000.00	173,000.00	173,000.00	173,000.00
870,000.00	435,000.00	175,000.00	87,000.00	1,567,000.00	175,000.00	175,000.00	175,000.00
880,000.00	440,000.00	177,000.00	88,000.00	1,585,000.00	177,000.00	177,000.00	177,000.00
890,000.00	445,000.00	179,000.00	89,000.00	1,603,000.00	179,000.00	179,000.00	179,000.00
900,000.00	450,000.00	181,000.00	90,000.00	1,621,000.00	181,000.00	181,000.00	181,000.00
910,000.00	455,000.00	183,000.00	91,000.00	1,639,000.00	183,000.00	183,000.00	183,000.00
920,000.00	460,000.00	185,000.00	92,000.00	1,657,000.00	185,000.00	185,000.00	185,000.00
930,000.00	465,000.00	187,000.00	93,000.00	1,675,000.00	187,000.00	187,000.00	187,000.00
940,000.00	470,000.00	189,000.00	94,000.00	1,693,000.00	189,000.00	189,000.00	189,000.00
950,000.00	475,000.00	191,000.00	95,000.00	1,711,000.00	191,000.00	191,000.00	191,000.00
960,000.00	480,000.00	193,000.00	96,000.00	1,729,000.00	193,000.00	193,000.00	193,000.00
970,000.00	485,000.00	195,000.00	97,000.00	1,747,000.00	195,000.00	195,000.00	195,000.00
980,000.00	490,000.00	197,000.00	98,000.00	1,765,000.00	197,000.00	197,000.00	197,

Table 25 continued.

Item	1953				1955			
	Acres: 1,250 — Yield: 31 cwt.				Acres: 1,460 — Yield: 33 cwt.			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>Labor:</b>								
Drivers	2.19 hr.	1.15	2.52	3,150.00	2.27 hr.	1.15	2.61	3,810.60
Irrigators	3.51 hr.	1.00	3.51	4,387.50	3.51 hr.	1.00	3.51	5,124.60
General	.36 hr.	.90	.32	400.00	.36 hr.	.90	.32	467.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.37	460.38			.37	545.34
<b>Contracts:</b>								
Insurance (\$1.50 per \$100.00 of value)			1.26	1,569.38			1.06	1,553.80
Interest on operating capital <sup>c/</sup>			.79	992.92			.85	1,235.42
Total Variable			36.10	45,122.68			38.45	56,142.76
Total Cost			62.84	78,546.77			66.74	97,452.33

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses ÷ 2 x 4.5 percent.

Item		1	2	3	4	5	6	7	8
Total Cost		65.24	76,246.77	66.71	67,458.33				
Total Variable									
Interest on operating capital		7.9	905.05	.82	1,535.45				
Interest on (\$100,000 of value)									
Insurance (\$1.50 per		1.36	1,569.36	1.06	1,523.60				
Contract:									
200.000.00 Corp. Insurance		.37	460.36	.37	462.36				
General		.35	400.30	.35	402.30				
Investments		3.51	4,307.50	3.51	4,309.50				
Building		1.12	1,350.00	1.12	1,352.00				

- 2/ Rounded.
- 3/ 7.9 percent x total labor cost.
- 4/ Total of variable expenses = 5 x 4.2 percent.



## Inputs and Costs for Producing Sugar Beets,

2,800-2 Farms

Item	1955			
	Acres: 200 — Yield: 22 tons			
	Units Used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4
			dollars	
<b>FIXED:</b>				
Real estate taxes		5.00	5.60	1,120.00
Office		.28	.30	60.00
Improvements		1.73	1.86	372.90
Power			6.29	1,258.00
Equipment			4.12	824.00
Irrigation water			21.71	4,342.00
Labor			13.10	2,619.50
Soc. Sec. & Comp. Insur. <sup>b</sup> /			.76	151.93
Total Fixed			53.74	10,748.33
<b>VARIABLE:</b>				
<u>Power:</u>				
T-5D tractor ✓	.35 hr.	.71	.25	50.00
T-7D tractor	1.04 hr.	1.02	1.06	212.00
T-9D tractor	.68 hr.	1.02	.69	138.00
W-2 tractor ✓	2.38 hr.	.81	1.92	384.00
Pickup ✓	18 mi.	.03	.57	114.00
Truck 1½ ton ✓	5 mi.	.05	.25	50.00
Truck 2 ton	2 mi.	.07	.13	26.00
<u>Equipment:</u>				
5' ditcher ✓	.30 hr.	.04	.01	2.00
8' scraper ✓	.35 hr.	.07	.03	6.00
10' x 60' landplane	.36 hr.	.09	.03	6.00
10' chisel	.38 hr.	.25	.09	18.00
18' offset disk	.68 hr.	.40	.27	54.00
20' spiketooth harrow	.18 hr.	.03	.01	2.00
12' cultipacker	.20 hr.	.89	.18	36.00
4-row lister	.25 hr.	.33	.08	16.00
4-row planter	.31 hr.	.15	.05	10.00
4-row cultivator	1.62 hr.	.74	1.20	240.00
<u>Materials:</u>				
Irrigation water	42 ac"	1.23	51.49	10,298.00
Seed	8 lb.	.46	3.68	736.00
<u>Labor:</u>				
Drivers	5.12 hr.	1.15	5.89	1,178.00
Irrigators	9.45 hr.	1.00	9.45	1,890.00
Soc. Sec. & Comp. Insur. <sup>b</sup> /			.89	177.94

(Continued on next page.)



Table 26 continued.

Item	1955			
	Acres: 200 — Yield: 22 tons			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4
<u>Contracts:</u>			dollars	
Thin			12.50	2,500.00
Fertilize (NH <sub>3</sub> )	119 lb.		14.00	2,800.00
Weed			8.00	1,600.00
Harvest			29.00	5,800.00
Haul			15.00	3,000.00
Interest on operating capital <sup>c/</sup>			2.54	507.24
Total Variable			159.26	31,851.18
Total Cost			213.00	42,599.51

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor cost.

<sup>c/</sup> Total of variable expenses (less harvest & haul) ÷ 2 x 4.5 percent.



Name		Age	Sex	Religion	Marital Status	Occupation	Address	Phone	Notes
John Doe		35	M	Catholic	Married	Teacher	123 Main St	555-1234	
Jane Smith		28	F	Protestant	Single	Nurse	456 Oak St	555-5678	
Robert Johnson		42	M	Jewish	Married	Engineer	789 Pine St	555-9012	
Mary White		31	F	Muslim	Married	Homemaker	101 Elm St	555-3456	
David Brown		25	M	Buddhist	Single	Student	202 Maple St	555-7890	
Susan Green		38	F	Hindu	Married	Doctor	303 Cedar St	555-2345	
Michael Black		22	M	Sikh	Single	Artist	404 Birch St	555-6789	
Emily Davis		29	F	Christian	Married	Lawyer	505 Walnut St	555-0123	
Christopher Wilson		33	M	Anglican	Married	Manager	606 Cherry St	555-4567	
Amanda Taylor		27	F	Methodist	Single	Writer	707 Peach St	555-8901	
Daniel Anderson		36	M	Presbyterian	Married	Architect	808 Apple St	555-2345	
Nicole Martinez		24	F	Evangelical	Single	Designer	909 Orange St	555-6789	
Kevin Lee		30	M	Quaker	Married	Scientist	1010 Grape St	555-0123	
Rachel Kim		26	F	Baptist	Single	Translator	1111 Lemon St	555-4567	
Steven Clark		34	M	Seventh Day Adventist	Married	Farmer	1212 Lime St	555-8901	
Michelle Scott		23	F	Unitarian	Single	Librarian	1313 Coconut St	555-2345	
Gregory Adams		37	M	Wesleyan	Married	Historian	1414 Coffee St	555-6789	
Stephanie Baker		21	F	Episcopal	Single	Model	1515 Tea St	555-0123	
Nathan Hall		32	M	Reformed	Married	Musician	1616 Butter St	555-4567	
Victoria Young		29	F	Presbyterian	Single	Chef	1717 Sugar St	555-8901	
Jonathan King		39	M	Anglican	Married	Professor	1818 Honey St	555-2345	
Samantha Wright		25	F	Methodist	Single	Yoga Instructor	1919 Malt St	555-6789	
Benjamin Lopez		31	M	Baptist	Married	Software Engineer	2020 Ketchup St	555-0123	
Christina Hill		27	F	Quaker	Single	Journalist	2121 Mayonnaise St	555-4567	
Ethan Green		33	M	Seventh Day Adventist	Married	Entrepreneur	2222 Vinegar St	555-8901	
Olivia Brown		24	F	Unitarian	Single	Photographer	2323 Baking Soda St	555-2345	
Alexander White		36	M	Episcopal	Married	Investor	2424 Baking Powder St	555-6789	
Sophia Black		22	F	Reformed	Single	Dancer	2525 Cinnamon St	555-0123	
Isaac Davis		38	M	Presbyterian	Married	Engineer	2626 Mustard St	555-4567	
Mia Taylor		26	F	Methodist	Single	Actress	2727 Soy Sauce St	555-8901	
Liam Anderson		30	M	Baptist	Married	Teacher	2828 Ketchup St	555-2345	
Ava Martinez		23	F	Quaker	Single	Designer	2929 Mayonnaise St	555-6789	
Noah Kim		35	M	Seventh Day Adventist	Married	Manager	3030 Vinegar St	555-0123	
Charlotte Clark		21	F	Unitarian	Single	Model	3131 Baking Soda St	555-4567	
Elijah Scott		34	M	Episcopal	Married	Architect	3232 Baking Powder St	555-8901	
Amelia Adams		28	F	Reformed	Single	Writer	3333 Cinnamon St	555-2345	
Caleb Baker		32	M	Presbyterian	Married	Farmer	3434 Mustard St	555-6789	
Hannah Young		25	F	Methodist	Single	Librarian	3535 Soy Sauce St	555-0123	
Gabriel King		37	M	Baptist	Married	Scientist	3636 Ketchup St	555-4567	
Lillian Wright		24	F	Quaker	Single	Designer	3737 Mayonnaise St	555-8901	
Samuel Lopez		31	M	Seventh Day Adventist	Married	Manager	3838 Vinegar St	555-2345	
Evelyn Hill		27	F	Unitarian	Single	Model	3939 Baking Soda St	555-6789	
Julian Green		33	M	Episcopal	Married	Architect	4040 Baking Powder St	555-0123	
Gabriella Black		22	F	Reformed	Single	Writer	4141 Cinnamon St	555-4567	
Isabella Davis		38	F	Presbyterian	Married	Farmer	4242 Mustard St	555-8901	
Caleb Taylor		26	M	Methodist	Single	Librarian	4343 Soy Sauce St	555-2345	
Sofia Anderson		30	F	Baptist	Married	Scientist	4444 Ketchup St	555-6789	
Ethan Martinez		23	M	Quaker	Single	Designer	4545 Mayonnaise St	555-0123	
Aria Kim		35	F	Seventh Day Adventist	Married	Manager	4646 Vinegar St	555-4567	
Caleb Clark		21	M	Unitarian	Single	Model	4747 Baking Soda St	555-8901	
Lillian Scott		34	F	Episcopal	Married	Architect	4848 Baking Powder St	555-2345	
Julian Adams		28	M	Reformed	Single	Writer	4949 Cinnamon St	555-6789	
Gabriella Baker		32	F	Presbyterian	Married	Farmer	5050 Mustard St	555-0123	
Isabella Young		25	F	Methodist	Single	Librarian	5151 Soy Sauce St	555-4567	
Caleb King		37	M	Baptist	Married	Scientist	5252 Ketchup St	555-8901	
Sofia Wright		24	F	Quaker	Single	Designer	5353 Mayonnaise St	555-2345	
Isaac Lopez		31	M	Seventh Day Adventist	Married	Manager	5454 Vinegar St	555-6789	
Evelyn Hill		27	F	Unitarian	Single	Model	5555 Baking Soda St	555-0123	
Julian Green		33	M	Episcopal	Married	Architect	5656 Baking Powder St	555-4567	
Gabriella Black		22	F	Reformed	Single	Writer	5757 Cinnamon St	555-8901	
Isabella Davis		38	F	Presbyterian	Married	Farmer	5858 Mustard St	555-2345	
Caleb Taylor		26	M	Methodist	Single	Librarian	5959 Soy Sauce St	555-6789	
Sofia Anderson		30	F	Baptist	Married	Scientist	6060 Ketchup St	555-0123	
Ethan Martinez		23	M	Quaker	Single	Designer	6161 Mayonnaise St	555-4567	
Aria Kim		35	F	Seventh Day Adventist	Married	Manager	6262 Vinegar St	555-8901	
Caleb Clark		21	M	Unitarian	Single	Model	6363 Baking Soda St	555-2345	
Lillian Scott		34	F	Episcopal	Married	Architect	6464 Baking Powder St	555-6789	
Julian Adams		28	M	Reformed	Single	Writer	6565 Cinnamon St	555-0123	
Gabriella Baker		32	F	Presbyterian	Married	Farmer	6666 Mustard St	555-4567	
Isabella Young		25	F	Methodist	Single	Librarian	6767 Soy Sauce St	555-8901	
Caleb King		37	M	Baptist	Married	Scientist	6868 Ketchup St	555-2345	
Sofia Wright		24	F	Quaker	Single	Designer	6969 Mayonnaise St	555-6789	
Isaac Lopez		31	M	Seventh Day Adventist	Married	Manager	7070 Vinegar St	555-0123	
Evelyn Hill		27	F	Unitarian	Single	Model	7171 Baking Soda St	555-4567	
Julian Green		33	M	Episcopal	Married	Architect	7272 Baking Powder St	555-8901	
Gabriella Black		22	F	Reformed	Single	Writer	7373 Cinnamon St	555-2345	
Isabella Davis		38	F	Presbyterian	Married	Farmer	7474 Mustard St	555-6789	
Caleb Taylor		26	M	Methodist	Single	Librarian	7575 Soy Sauce St	555-0123	
Sofia Anderson		30	F	Baptist	Married	Scientist	7676 Ketchup St	555-4567	
Ethan Martinez		23	M	Quaker	Single	Designer	7777 Mayonnaise St	555-8901	
Aria Kim		35	F	Seventh Day Adventist	Married	Manager	7878 Vinegar St	555-2345	
Caleb Clark		21	M	Unitarian	Single	Model	7979 Baking Soda St	555-6789	
Lillian Scott		34	F	Episcopal	Married	Architect	8080 Baking Powder St	555-0123	
Julian Adams		28	M	Reformed	Single	Writer	8181 Cinnamon St	555-4567	
Gabriella Baker		32	F	Presbyterian	Married	Farmer	8282 Mustard St	555-8901	
Isabella Young		25	F	Methodist	Single	Librarian	8383 Soy Sauce St	555-2345	
Caleb King		37	M	Baptist	Married	Scientist	8484 Ketchup St	555-6789	
Sofia Wright		24	F	Quaker	Single	Designer	8585 Mayonnaise St	555-0123	
Isaac Lopez		31	M	Seventh Day Adventist	Married	Manager	8686 Vinegar St	555-4567	
Evelyn Hill		27	F	Unitarian	Single	Model	8787 Baking Soda St	555-8901	
Julian Green		33	M	Episcopal	Married	Architect	8888 Baking Powder St	555-2345	
Gabriella Black		22	F	Reformed	Single	Writer	8989 Cinnamon St	555-6789	
Isabella Davis		38	F	Presbyterian	Married	Farmer	9090 Mustard St	555-0123	
Caleb Taylor		26	M	Methodist	Single	Librarian	9191 Soy Sauce St	555-4567	
Sofia Anderson		30	F	Baptist	Married	Scientist	9292 Ketchup St	555-8901	
Ethan Martinez		23	M	Quaker	Single	Designer	9393 Mayonnaise St	555-2345	
Aria Kim		35	F	Seventh Day Adventist	Married	Manager	9494 Vinegar St	555-6789	
Caleb Clark		21	M	Unitarian	Single	Model	9595 Baking Soda St	555-0123	
Lillian Scott		34	F	Episcopal	Married	Architect	9696 Baking Powder St	555-4567	
Julian Adams		28	M	Reformed	Single	Writer	9797 Cinnamon St	555-8901	
Gabriella Baker		32	F	Presbyterian	Married	Farmer	9898 Mustard St	555-2345	
Isabella Young		25	F	Methodist	Single	Librarian	9999 Soy Sauce St	555-6789	

1. Total of sample size: 100 (50% female & 50% male)  
 2. 50% female & 50% male  
 3. 50% female & 50% male

TABLE 27

## Inputs and Costs for Fallow Land,

2,800-2 Farms

Item	1953				1955			
	Acres: — 650				Acres: — 600			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.13	3,080.00
Office		.28	.28	180.00		.28	.28	165.00
Improvements		1.73	1.72	1,118.70		1.73	1.71	1,025.47
Power			1.12	728.00			1.21	726.00
Equipment			1.65	1,072.50			1.75	1,050.00
Labor			.62	403.00			.67	403.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.04	23.37			.04	23.37
Total Fixed			10.60	6,885.57			10.79	6,472.84
<b>VARIABLE:</b>								
<u>Power:</u>								
T-5D tractor	.41 hr.	.70	.29	188.50	.41 hr.	.71	.29	174.00
T-7D tractor	.40 hr.	.99	.40	260.00	.40 hr.	1.02	.41	246.00
<u>Equipment:</u>								
disk-plow, 6' blade	.41 hr.	3.94	1.62	1,053.00	.41 hr.	4.27	1.75	1,050.00
18' offset disk	.40 hr.	.47	.19	123.50	.40 hr.	.40	.16	96.00
<u>Labor:</u>								
Driver	.81 hr.	1.15	.93	604.50	.81 hr.	1.15	.93	558.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.05	35.06			.05	32.36
<u>Contracts:</u>								
Interest on operating capital <sup>c/</sup>			.08	50.95			.08	48.52
Total Variable			3.56	2,315.51			3.67	2,204.88
Total Cost			14.16	9,201.08			14.46	8,677.72

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses ÷ 2 x 4.5 percent.

Amount and Dates for Below Items

Item	1957		1958		1959		1960	
	1	2	3	4	5	6	7	8
Land, state taxes		2.00	2.17	3,380.00	0.00	0.00	0.13	3,380.00
Gas		.38	.38	100.00	.38	.38	.38	100.00
Insurance		1.75	1.75	1,118.70	1.75	1.75	1.75	1,118.70
Town			1.15	528.00			1.15	528.00
Depreciation		1.05	1.05	1,075.30			1.05	1,075.30
Labor		.65	.65	407.00			.65	407.00
Sec. Acc. & Comp. Insur.		.04	.04	53.37			.04	53.37
Total Fixed		10.00	6,687.37				10.79	6,687.37
Variable:								
Tractor	.41 hr.	.70	.32	180.50	.11 hr.	.71	.30	180.50
Tractor	.40 hr.	.30	.40	200.00	.43 hr.	1.03	.40	200.00
Tractor	.11 hr.	3.84	1.13	1,033.00	.41 hr.	4.37	1.75	1,033.00
Tractor	.40 hr.	.37	.13	152.00	.40 hr.	.40	.10	152.00
Tractor	.61 hr.	1.10	.03	604.50	.61 hr.	1.13	.03	604.50
Tractor		.05	.05	32.00		.05	.05	32.00
Tractor		.08	.08	40.00		.08	.08	40.00
Total Variable		3.35	5,412.37				3.91	5,412.37
Total Cost		14.16	9,501.08				14.40	9,501.08

Amount

7.1 percent x total labor cost

Total of variable expenses = 5 x 4.7 percent



TABLE 28

## Inputs and Costs for Producing Cotton,

2,800-3 Farms

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		5.00	5.25	4,200.00		5.00	5.09	2,240.00
Office		.28	.28	225.00		.28	.27	120.00
Improvements		1.73	1.75	1,398.38		1.73	1.70	745.80
Power			7.74	6,192.00			9.71	4,272.40
Equipment			11.11	8,888.00			19.18	8,439.20
Irrigation water			16.44	13,152.00			19.77	8,698.80
Labor			15.11	12,090.00			19.69	8,664.50
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.88	701.22			1.14	502.54
Total Fixed			58.56	46,846.60			76.55	33,683.24
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.50 hr.	.71	.36	288.00	.50 hr.	.72	.36	158.40
T-7D tractor	1.49 hr.	.94	1.39	1,112.00	1.49 hr.	.98	1.46	642.40
T-9D tractor	.61 hr.	1.00	.61	488.00	.61 hr.	1.01	.62	272.80
W-2 tractor	6.16 hr.	.71	4.35	3,480.00	6.16 hr.	.78	4.77	2,098.80
Pickup $\frac{1}{2}$ ton	32 mi.	.03	1.01	808.00	37 mi.	.03	1.18	519.20
Truck $1\frac{1}{2}$ ton	8 mi.	.05	.45	360.00	10 mi.	.05	.53	233.20
Truck 2 ton	4 mi.	.07	.24	192.00	4 mi.	.07	.28	123.20
<b>Equipment:</b>								
5' ditcher	.30 hr.	.02	.01	8.00	.30 hr.	.03	.01	4.40
8' scraper	.30 hr.	.04	.01	8.00	.30 hr.	.06	.02	8.80
10' x 60' landplane	.72 hr.	.09	.07	56.00	.72 hr.	.09	.07	30.80
10' chisel	.38 hr.	.09	.04	32.00	.38 hr.	.13	.05	22.00
10' offset	.16 hr.	.55	.09	72.00	.16 hr.	.47	.08	35.20
24' offset	.45 hr.	.50	.22	176.00	.45 hr.	.75	.34	149.60
30' spiketooth harrow	.09 hr.	.06	.01	8.00	.09 hr.	.06	.01	4.40
12' cultipacker	.20 hr.	.71	.14	112.00	.20 hr.	1.30	.26	114.40
4-row lister	.25 hr.	.12	.03	24.00	.25 hr.	.18	.04	17.60
4-row planter	.31 hr.	.06	.02	16.00	.31 hr.	.08	.03	13.20
4-row cultivator	2.32 hr.	.38	.88	704.00	2.32 hr.	.60	1.39	611.60
1-row cotton picker	2.78 hr.	1.96	5.46	4,368.00	2.78 hr.	3.57	9.92	4,364.80
6-bale cotton trailer	1.50 hr.	.06	.08	64.00	1.50 hr.	.10	.15	66.00
Stalk cutter	.50 hr.	.08	.04	32.00	.50 hr.	.15	.07	30.80

(Continued on next page.)

There are 60-70 for 5-6 inch diameter.

$$(e^{2\pi i n} - 1) \sum_{j=0}^{n-1} e^{2\pi i j} = 0$$

Table 28 continued.

Item	1953				1955			
	Acres: 800 — Yield: 1.6 bales				Acres: 440 — Yield: 2.0 bales			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
<b>Material:</b>			dollars				dollars	
Irrigation water	37.2 ac"	1.16	43.04	34,432.00	39.0 ac"	1.22	47.46	20,882.40
Seed (acid delint)	18 lb.	.12	2.07	1,656.00	18 lb.	.12	2.07	910.80
<b>Labor:</b>								
Drivers	11.31 hr.	1.15	13.01	10,408.00	11.48 hr.	1.15	13.20	5,808.00
Irrigators	8.37 hr.	1.00	8.37	6,696.00	8.78 hr.	1.00	8.78	3,863.20
General	3.09 hr.	.90	2.78	2,224.00	3.09 hr.	.90	2.78	1,223.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			1.40	1,121.02			1.44	631.88
<b>Contracts:</b>								
Fertilize (NH <sub>3</sub> )	136 lb.		15.78	12,624.00	156 lb.		17.88	7,867.20
Hand thin			5.00	4,000.00			5.00	2,200.00
Hand weed			5.00	4,000.00			5.00	2,200.00
Dust 2X (5% DDT - 50% S)	60 lb.		8.10	6,480.00	60 lb.		8.10	3,564.00
Defoliate (NaClO <sub>3</sub> W/Borate or Mg.)	10 lb.		4.25	3,400.00	10 lb.		4.25	1,870.00
Gin	1.6 bale	14.70	23.52	18,816.00	2.0 bale	14.70	29.40	12,936.00
Insurance & Storage	1.6 bale	1.19	1.90	1,520.00	2.0 bale	1.19	2.38	1,047.20
Interest on operating capital <sup>c/</sup>			2.84	2,271.80			3.15	1,385.76
Total Variable			152.57	122,056.82			172.53	75,911.24
Total Cost			211.13	168,903.42			249.08	109,594.48

a/ Rounded.

b/ 5.8 percent x total labor cost.

c/ Total of variable expenses (less ginning) ÷ 2 x 4.5 percent.





TABLE 29

## Inputs and Costs for Producing Barley,

2,800-3 Farms

Item	1953				1955			
	Acres: 350 Yield: 31 cwt.				Acres: 810 Yield: 33 cwt.			
	Units used per acre <sup>a</sup>	Unit cost <sup>a</sup>	Cost per acre	Total cost	Units used per acre <sup>a</sup>	Unit cost <sup>a</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<b>FIXED:</b>								
Real estate taxes		5.00	5.20	1,820.00		5.00	5.18	4,200.00
Office		.28	.28	97.50		.28	.28	225.00
Improvements		1.73	1.73	605.96		1.73	1.73	1,398.38
Power			3.34	1,169.00			3.72	3,013.20
Equipment			7.26	2,541.00			3.54	2,867.40
Irrigation water			6.90	2,415.00			9.13	7,395.30
Labor			4.03	1,410.50			5.22	4,231.50
Soc. Sec. & Comp. Insur. <sup>b</sup>			.23	81.81			.30	245.43
Total Fixed			28.97	10,140.77			29.10	23,576.21
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.38 hr.	.71	.27	94.50	.38 hr.	.72	.27	218.70
T-7D tractor	.72 hr.	.94	.67	234.50	.72 hr.	.98	.70	567.00
T-9D tractor	.50 hr.	1.00	.50	175.00	.50 hr.	1.01	.51	413.10
Pickup	16 mi.	.03	.51	178.50	18 mi.	.03	.59	477.90
Truck 1½ ton	4 mi.	.05	.23	80.50	5 mi.	.05	.27	218.70
Truck 2 ton	2 mi.	.07	.12	42.00	2 mi.	.07	.14	113.40
<b>Equipment:</b>								
10' x 60' landplane	.72 hr.	.09	.07	24.50	.72 hr.	.09	.07	56.70
18' offset disk	.50 hr.	.55	.28	98.00	.50 hr.	.47	.24	194.40
Border disk	.22 hr.	.23	.05	17.50	.22 hr.	.10	.02	16.20
20' spiketooth harrow	.18 hr.	.04	.01	3.50	.18 hr.	.04	.01	8.10
12' grain drill	.16 hr.	.50	.08	28.00	.16 hr.	.22	.03	24.30
16' harvester SP	.36 hr.	17.70	6.37	2,229.50	.36 hr.	7.97	2.87	9,324.70
<b>Materials:</b>								
Irrigation water	15.6 ac <sup>n</sup>	1.16	18.05	6,317.50	18 ac <sup>n</sup>	1.22	21.91	17,747.10
Seed	80 lb.	.04	3.20	1,120.00	80 lb.	.04	3.20	2,592.00

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Table 29 continued.

Item	1953				1955			
	Acres: 350 Yield: 31 cwt.				Acres: 810 Yield: 33 cwt.			
	Units used	Unit	Cost per	Total	Units used	Unit	Cost per	Total
	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost	per acre <sup>a/</sup>	cost <sup>a/</sup>	acre	cost
	1	2	3	4	5	6	7	8
		dollars				dollars		
<u>Labor:</u>								
Drivers	2.19 hr.	1.15	2.52	882.00	2.29 hr.	1.15	2.63	2,130.30
Irrigators	3.51 hr.	1.00	3.51	1,228.50	3.51 hr.	1.00	3.51	2,843.10
General	.36 hr.	.90	.32	112.00	.36 hr.	.90	.32	259.20
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.37	128.90			.37	303.49
<u>Contracts:</u>								
Insurance (\$1.50 per \$100.00 of value)			1.26	439.42			1.06	862.04
Interest on operating capital <sup>c/</sup>			.86	302.27			.87	705.83
Total Variable			39.25	13,736.59			39.59	32,076.26
Total Cost			68.22	23,877.36			68.69	55,652.47

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses ÷ 2 x 4.5 percent.

2/10/1941

5.0 g. treated label coat. 16

[illegible]

TABLE 30

## Inputs and Costs for Producing Melons,

2,800-3 Farms

Item	1953				1955			
	Acres: 900 — Yield: 175 crates				Acres: 750 — Yield: 175 crates			
	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost	Units used per acre <sup>a</sup> /	Unit cost <sup>a</sup> /	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.13	4,620.00		5.00	5.23	3,920.00
Office		.28	.28	247.50		.28	.28	210.00
Improvements		1.73	1.71	1,538.21		1.73	1.74	1,305.15
Power			4.70	4,230.00			5.49	4,117.50
Equipment			1.91	1,719.00			2.44	1,830.00
Irrigation water			12.46	11,214.00			14.30	10,725.00
Labor			6.94	6,246.50			9.13	6,851.00
Soc. Sec. & Comp. Insur. <sup>b</sup> /			.40	362.30			.53	397.36
<b>Total Fixed</b>			<b>33.53</b>	<b>30,177.51</b>			<b>39.14</b>	<b>29,356.01</b>
<b>VARIABLE:</b>								
<b>Power:</b>								
T-5D tractor	.30 hr.	.71	.21	189.00	.30 hr.	.72	.22	165.00
T-7D tractor	1.20 hr.	.94	1.12	1,008.00	1.20 hr.	.98	1.17	877.50
T-9D tractor	.62 hr.	1.00	.62	558.00	.62 hr.	1.01	.63	472.50
W-2 tractor	1.42 hr.	.71	1.00	900.00	1.42 hr.	.76	1.10	825.00
Pickups	16 mi.	.03	.51	459.00	18 mi.	.03	.59	442.50
Truck 1½ ton	4 mi.	.05	.23	207.00	5 mi.	.05	.27	202.50
Truck 2 ton	2 mi.	.07	.12	108.00	2 mi.	.07	.14	105.00
<b>Equipment:</b>								
5' ditcher (double-wing)	.15 hr.	.02		2.97	.15 hr.	.03	.01	7.50
8' scraper	.15 hr.	.04	.01	9.00	.15 hr.	.06	.01	7.50
10' x 60' landplane	.72 hr.	.09	.07	63.00	.72 hr.	.09	.07	52.50
10' chisel	.38 hr.	.09	.04	36.00	.38 hr.	.13	.05	37.50
18' offset disk	.32 hr.	.55	.18	162.00	.32 hr.	.47	.15	112.50
24' offset disk	.30 hr.	.50	.15	135.00	.30 hr.	.75	.22	165.00
30' spiketooth harrow	.10 hr.	.06	.01	9.00	.10 hr.	.06	.01	7.50
4-row lister	.25 hr.	.12	.03	27.00	.25 hr.	.18	.04	30.00
4-row planter	.31 hr.	.06	.02	18.00	.31 hr.	.08	.03	22.50
4-row cultivator	.86 hr.	.38	.33	297.00	.86 hr.	.60	.52	390.00

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Table 30 continued.

Item	1953				1955					
	Acres: 900 — Yield: 175 crates				Acres: 750 — Yield: 175 crates					
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost		
	1	2	3	4	5	6	7	8		
			dollars				dollars			
<b>Materials:</b>										
Irrigation water	28.2	ac"	1.16	32.63	29,367.00	28.2	ac"	1.22	34.32	25,740.00
Seed	3	lb.	1.45	4.35	3,915.00	3	lb.	1.45	4.35	3,262.50
<b>Labor:</b>										
Drivers	4.13	hr.	1.15	4.75	4,275.00	4.23	hr.	1.15	4.86	3,645.00
Irrigators	6.35	hr.	1.00	6.35	5,715.00	6.35	hr.	1.00	6.35	4,762.50
General	.31	hr.	.90	.28	252.00	.31	hr.	.90	.28	210.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>				.66	594.04				.67	499.82
<b>Contracts:</b>										
Fertilize (NH <sub>3</sub> )	119	lb.		14.00	12,600.00	119	lb.		14.00	10,500.00
Dust 3X - 5% DDT	90	lb.	.12	10.80	9,720.00	90	lb.	.12	10.80	8,100.00
1X - 1% TEPP	40	lb.	.21	8.40	7,560.00	40	lb.	.21	8.40	6,300.00
Turn vines				10.50	9,450.00				10.50	7,875.00
Chop weed				25.00	22,500.00				25.00	18,750.00
Harvest	175	crate	.27	47.25	42,525.00	175	crate	.27	47.25	35,437.50
Pack & haul	175	crate	1.48	259.00	233,100.00	175	crate	1.48	259.00	194,250.00
Interest on operating capital <sup>c/</sup>				2.75	2,478.06				2.81	2,105.26
Total Variable				431.37	388,239.07				433.82	325,360.08
Total Cost				464.90	418,416.58				472.96	354,716.09

<sup>a/</sup> Rounded.<sup>b/</sup> 5.8 percent x total labor cost.<sup>c/</sup> Total of variable expenses (less harvest, pack & haul) ÷ 2 x 4.5 percent.





TABLE 31

Inputs and Costs for Fallow Land,  
2,800-3 Farms

Item	1953				1955			
	Acres: 650				Acres: 700			
	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost	Units used per acre <sup>a/</sup>	Unit cost <sup>a/</sup>	Cost per acre	Total cost
	1	2	3	4	5	6	7	8
			dollars				dollars	
<b>FIXED:</b>								
Real estate taxes		5.00	5.17	3,360.00		5.00	5.20	3,640.00
Office		.43	.28	180.00		.43	.28	195.00
Improvements		2.47	1.72	1,118.70		2.47	1.73	1,211.92
Power			1.02	663.00			1.13	791.00
Equipment			1.68	1,092.00			1.54	1,078.00
Labor			.62	403.00			.58	403.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.04	23.37			.03	23.37
Total Fixed			10.53	6,840.07			10.49	7,342.29
<b>VARIABLE:</b>								
Power:								
T-5D tractor	.41 hr.	.71	.29	188.50	.41 hr.	.72	.29	203.00
T-7D tractor	.40 hr.	.94	.37	240.50	.40 hr.	.98	.39	273.00
<b>Equipment:</b>								
6' blade-disk plow	.41 hr.	3.94	1.62	1,053.00	.41 hr.	3.66	1.50	1,050.00
18' offset disk	.40 hr.	.55	.22	143.00	.40 hr.	.47	.19	133.00
<b>Labor:</b>								
Drivers	.81 hr.	1.15	.93	604.50	.81 hr.	1.15	.93	651.00
Soc. Sec. & Comp. Insur. <sup>b/</sup>			.05	35.06			.05	37.76
<b>Contracts:</b>								
Interest on operating capital <sup>c/</sup>			.08	50.95			.08	52.82
Total Variable			3.56	2,315.51			3.43	2,400.58
Total Cost			14.09	9,155.58			13.92	9,742.87

<sup>a/</sup> Rounded.

<sup>b/</sup> 5.8 percent x total labor cost.

<sup>c/</sup> Total of variable expenses - 2 x 4.5 percent.

Inputs and Costs for Various Items

Item	1	2	3	4	5	6	7	8	9
Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs	Inputs and Costs
Real estate taxes	2.00	2.17	2.30	2.40	2.50	2.60	2.70	2.80	2.90
Electricity	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Gas	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Water	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Telephone	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Insurance	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Depreciation	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Interest	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Profit	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Total	10.00	10.80	11.60	12.40	13.20	14.00	14.80	15.60	16.40
Real estate taxes	2.00	2.17	2.30	2.40	2.50	2.60	2.70	2.80	2.90
Electricity	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Gas	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Water	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Telephone	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Insurance	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Depreciation	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Interest	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Profit	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56	1.64
Total	10.00	10.80	11.60	12.40	13.20	14.00	14.80	15.60	16.40

Continued

1.8 percent of total labor cost.

2. Total of variable expenses - 5 x 1.8 percent.

TABLE 32

## Farm Product Selling Prices, 1953 and 1955

<u>Product</u> 1	<u>Unit</u> 2	<u>1953</u> 3	<u>1955</u> 4
Alfalfa hay	ton	\$ 21.60	\$ 26.00
Alfalfa seed	lb.	.28	.24
Barley	cwt.	2.70	2.15
Corn	cwt.	3.25	2.70
Corn ensilage	ton	6.00	6.50
Cotton seed	ton	53.00	46.00
Cotton lint	lb.	.3117	.35
Cotton lint	bale	148.99	167.30
Melons (cantaloupe)	crate	3.05	3.00
Milo	cwt.	2.75	2.30
Potatoes (early)	cwt.	1.42	1.85
Sugar beets	ton	13.50	13.50



Table 1. Selling Prices, 1953 and 1954

1953	1954	Unit	Commodity
\$ 20.00	\$ 21.10	ton	Alfalfa hay
2.25	2.25	lb.	Alfalfa seed
2.15	2.20	cwt.	Barley
2.70	2.75	cwt.	Corn
0.50	0.50	bu.	Corn ensilage
40.00	33.00	ton	Cotton seed
30.	31.17	lb.	Cotton lint
107.00	108.00	bag	Cotton lint
2.50	2.50	cwt.	Wheat
1.75	1.75	ton	Wheat (hard)
13.50	13.50	ton	Sugar beets

## Farm Service Purchasing Prices, 1953-1955

<u>Labor rates</u>			<u>Contract services (continued)</u>		
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Tractor driver		\$ 1.15 per hour	Certify	acre	\$10.12
Pickup driver		1.15 per hour	Box rental	acre	1.00
Truck driver		1.15 per hour	Fertilize (super phosphate)- (appln.)	acre	1.10
Irrigator		1.00 per hour	Dust (5% DDT - 75% S)- (appln.)	lb.	.04
General		.90 per hour	Defoliate (1 qt. Sinox in 10 gal. diesel oil)-(appln.)	acre	2.50
Foreman		4,000.00 per year	Dust (2% Parathion)-(appln.)	lb.	.05
Strawboss		3,000.00 per year			
Shop mechanic #1		3,750.00 per year	<u>Barley</u>		
Shop mechanic #2		3,400.00 per year	Harvest	acre	5.00
Bookkeeper (part-time on 1,100-acre farm)		1,200.00 per year	Haul	cwt.	.10
Bookkeeper (full-time on 2,800-acre farms)		3,000.00 per year	Storage	cwt.	.144
Compensation Insurance		3.8% of labor cost	Insurance	\$1.50 per \$100 of value	
Social Security		2.0% of labor cost			
<u>Equipment rentals</u>			<u>Corn</u>		
4' ditcher		\$ .50 per hour	Chop, haul, unload	ton	2.25
4' scraper		.50 per hour	Shell	cwt.	.125
10' x 60' landplane		2.00 per hour	Pick	acre	10.00
Border disk		.50 per hour	Haul	cwt.	.10
12' springtooth		.50 per hour	Dry	cwt.	.175
2-row planter		.50 per hour	Storage	cwt.	.144
Fertilizer attachment		.50 per hour	Insurance	\$1.50 per \$100 of value	
Fertilizer spreader		1.00 per hour	Fertilize (NH <sub>3</sub> )-(appln.)	acre	1.75
Stalk cutter		1.00 per hour			
Broadcaster		.25 per hour	<u>Cotton</u>		
<u>Contract services</u>			Hand thin	acre	5.00
<u>Alfalfa</u>			Hand weed	acre	5.00
Bale	ton	\$ 3.50	Pick (hand)	bale	42.00
Roadside	ton	1.75	Pick (machine)	bale	24.50
Bees	colony	5.00	Gin	bale	14.70
Weed	acre	15.00	Insurance & storage	bale	1.19
Harvest	lb.	.03	Dust (5% DDT - 50% S)- (appln.)	lb.	.05





Contract services (continued)

<u>1</u>	<u>2</u>	<u>3</u>
<u>Cotton (continued)</u>		
Defoliate ( $\text{NaClO}_3$ w/Borate or Mg.)-(appln.)	acre	\$ 2.50
Fertilize ( $\text{NH}_3$ )-(appln.)	acre	1.50
Gypsum - (appln.)	ton	1.50

Melons

Turn vines	acre	10.50
Chop, weed	acre	25.00
Harvest	crate	.27
Pack & haul	crate	1.48
Dust 5% DDT - (appln.)	lb.	.05
1% TEPP - (appln.)	lb.	.05
Fertilize ( $\text{NH}_3$ )-(appln.)	acre	1.25

Milo

Harvest	acre	6.00
Haul	cwt.	.10
Storage	cwt.	.144
Insurance	\$1.50 per \$100 of value	

Potatoes

Rotobeat	acre	3.00
Dig	acre	12.00
Pick	cwt.	.16
Haul	cwt.	.075
Shed costs	cwt.	.55
Dust (5% DDT - 50% S)- (appln.)	lb.	.05

Contract services (continued)

<u>4</u>	<u>5</u>	<u>6</u>
<u>Sugar beets</u>		
Thin	acre	\$12.50
Weed	acre	8.00
Harvest	acre	29.00
Haul	acre	15.00
Fertilize ( $\text{NH}_3$ )-(appln.)	acre	1.25

Preparing seedbed

Disk	acre	1.50
Chisel	acre	2.75
Landplane	acre	4.00
Make borders	acre	.75

Contract services (continued)		Contract services (continued)	
1	2	3	4
Contract (continued)			Contract (continued)
Defoliate (M-10) w/Herbicide	none	2 2.50	Thin
on M-10 (apple)			Wood
Fertilize (M-10) (apple)	none	1.50	Harvest
Gypsum - (apple)	per	1.50	Leaf
			Fertilize (M-10) (apple)
Malone			
Tree vines	none	10.50	Preparation seedbed
Chop, weed	none	25.00	Disc
Harvest	acre	25	Grass
Feed & haul	acre	1.45	Liming
Feed 25 M-10 - (apple)	lb.	.05	Make forage
10 M-10 - (apple)	lb.	.05	
Fertilize (M-10) (apple)	none	1.50	
Wino			
Harvest	none	5.00	
Haul	cut	.10	
Storage	cut	1.14	
Insurance			
		\$1.50 per	
		1000 sq. value	
Estimate			
Estimate	none	3.00	
Disc	acre	15.00	
Plow	cut	.15	
Haul	cut	.075	
Seed costs	cut	.55	
Seed (25 M-10 - 200 2)			
(apple)	lb.	.05	



TABLE 34

## Farm Materials Purchasing Prices, 1953-1955

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
<u>Alfalfa</u>			<u>Melons</u>		
Seed (common)	lb.	\$ .32	Seed	lb.	\$1.45
Seed (caliverde)	lb.	.34	Dust 5% DDT	lb.	.07
Seed (certified ranger)	lb.	.40	1% TEPP	lb.	.16
Fertilizer (super phosphate)	lb.	.020	Fertilizer (NH <sub>3</sub> )	lb.	.085
Dust (5% DDT - 75% S)	lb.	.0925	<u>Milo</u>		
Dust (2% Parathion)	lb.	.121	Seed	lb.	.08
Sinox defoliant (1 qt. applied in 10 gal. diesel oil)	qt.	2.90	<u>Permanent pasture</u>		
Baling wire	ton	.50	Seed	lb.	.50
			Fertilizer (16-20)	lb.	.045
<u>Barley</u>			<u>Potatoes</u>		
Seed	lb.	.04	Seed (cut & dipped)	cwt.	6.30
			Fertilizer (17-7-0)	lb.	.0375
<u>Corn</u>			Dust (5% DDT - 50% S)	lb.	.085
Seed	lb.	.26	<u>Sugar beets</u>		
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032	Seed	lb.	.46
Fertilizer (NH <sub>3</sub> )	lb.	.105	Fertilizer (NH <sub>3</sub> )	lb.	.095
<u>Cotton</u>					
Seed (acid delinted)	lb.	.115			
Seed (machine delinted)	lb.	.081			
Fertilizer (NH <sub>4</sub> SO <sub>4</sub> )	lb.	.032			
Dust (5% DDT - 50% S)	lb.	.085			
Defoliant (NaClO <sub>3</sub> w/ Borate or Mg.) <sup>3</sup>	lb.	.175			
Fertilizer (NH <sub>3</sub> )		<u>1/</u>			
Gypsum	ton	2.50			

1/ \$ .105/lb. for 1-24 tons; \$ .095/lb. for 25-49 tons; \$ .085/lb. for 50 tons and over.



TABLE 34

Farm Materials Forecasting Prices, 1953-1955

Alaska		Maine		N. H.		N. J.		N. Y.		Pa.		Vt.		W. Va.		Md.		Del.		D.C.		N.C.		S.C.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		Ind.		Ohio		Mich.		Wis.		Iowa		Miss.		Ark.		La.		Ala.		Ga.		Fla.		Tex.		Okla.		Kan.		Nebr.		Ks.		Mo.		Ill.		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